

Section 1: Manufacturer Identification

Mason Color Works, Inc. Phone: (330) 385-4400
 250 East 2nd Street/P.O. Box 76 Fax: (330) 385-4488
 East Liverpool, OH 43920-5076

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Shell Pink 6000, Alpine Rose 6001, Rose Pink 6002, Crimson 6003, Crimson 6004, Deep Crimson 6005, Deep Crimson 6006, Pink Extender, 6067
 Chemical Abstract Number (CAS): 68187-12-2
 Chemical Name: Chrome Tin Pink Sphene
 Chemical Formula: CaO,SnO.SiO₂: Cr₂O₃

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

- Inhalation:** Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.
- Eye Contact:** mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.
- Skin Contact:** Expected to be non irritating.
- Ingestion:** Considered to be non-irritating , non-toxic if swallowed.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Symptoms of overexposure:

- Inhalation:**
 - a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
 - b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
 - c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
 - d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)
- Eye Contact:** May cause abrasions of the cornea.
- Skin Contact:** Not applicable.
- Ingestion:** Not applicable.

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms
Continued

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Tin Oxide (SnO) Cas # 21651-19-4	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³

Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: Pink Powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CRF, Part 372.

The information contained in this Material Safety Data Sheet must be provided to every employee who is exposed to this product in any way. We recommend the user reads and understands the contents herein before using this material.

PLEASE KEEP ON FILE FOR FUTURE REFERENCE. DO NOT THROW AWAY ! MATERIAL SAFETY DATA SHEETS ARE REQUIRED FOR FIRST SHIPMENT, AND WILL BE SENT AGAIN WHEN REVISED UPON YOUR NEXT ORDER OF PRODUCT OR BY REQUEST.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6007, 6008, 6090

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Peach 6007, Peach 6008, Coral 6090
 Chemical Abstract Number (CAS): 68187-12-2, 68186-93-6
 Chemical Name: Chrome Tin Vanadium Coral
 Chemical Formula: Ca.SnO.SiO₂.Cr₂O₃ + (Sn,V)₂

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

- Inhalation:** Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.
- Eye Contact:** mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.
- Skin Contact:** Expected to be non irritating.
- Ingestion:** Considered to be non-irritating , non-toxic if swallowed.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Symptoms of overexposure:

- Inhalation:**
 - a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
 - b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
 - c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
 - d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)
- Eye Contact:** May cause abrasions of the cornea.
- Skin Contact:** Not applicable.
- Ingestion:** Not applicable.

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms
Continued

Tin Oxide (SnO) Cas # 21651-19-4	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
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Symptoms of overexposure:

- Inhalation:** No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.
- Eye Contact:** Abrasive, mild irritant
- Skin Contact:** Possible irritant.
- Ingestion:** Considered non-toxic.

Vanadium Oxide (VO₃) Cas # 1314-62-1	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
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Symptoms of overexposure:

- Inhalation:** Irritation of the respiratory tract, chest tightness, wheezing, coughing.
- Eye Contact:** Irritation possible with corneal injury.
- Skin Contact:** Irritation with reddening and itching. Absorption of harmful amounts possible.
- Ingestion:** Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

Section 5: Emergency and First Aid Procedures:

- Eye: flush thoroughly with water for 15 minutes.
- Skin: remove contaminated clothing, wash thoroughly with soap and water.
- Inhalation: remove to fresh air, may give oxygen if needed.
- Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

- Inhalation:** Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.
- Ingestion:** Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.
- Skin & Eye:** Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

- Respiratory Protection:** Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.
- Personal Protective Equip:** Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.
- Ventilation:** Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

- | | |
|----------------------------|---------------------------------|
| Boiling Point: N/A | Odor: oderless |
| Solubility in water: trace | Specific Gravity (water=1): N/A |
| Vapor Pressure (mmHg): N/A | Evaporation rate: None |
| Vapor Density (air=1): N/A | % Volatile by volume: None |
| Appearance: Peach Powder | |

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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****SARA 313*

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Last issued: 11/97
Updated : 3/2000

Product Number: 6009,6023,6098

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Coral 6009, Clover Pink 6023, Flesh 6098
 Chemical Abstract Number (CAS): 68186-93-6,10101-52-7
 Chemical Name: Chrome Tin Vanadium Coral
 Chemical Formula: CaO.SnO.SiO₂:Cr₂O₃ + (Zr,V)₂

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating, non-toxic if swallowed.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Symptoms of overexposure:

Inhalation:

- Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms
Continued

Tin Oxide (SnO) Cas # 21651-19-4	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
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Symptoms of overexposure:

- Inhalation:** No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.
- Eye Contact:** Abrasive, mild irritant
- Skin Contact:** Possible irritant.
- Ingestion:** Considered non-toxic.

Vanadium Oxide (VO₃) Cas # 1314-62-1	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
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Symptoms of overexposure:

- Inhalation:** Irritation of the respiratory tract, chest tightness, wheezing, coughing.
- Eye Contact:** Irritation possible with corneal injury.
- Skin Contact:** Irritation with reddening and itching. Absorption of harmful amounts possible.
- Ingestion:** Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

Zirconium Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³ (total) 5 mg/m ³ (respirable)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	5 mg/m ³ 15 min. C
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Symptoms of overexposure:

- Inhalation:** Acute inhalation to respirable dust which contains radioactive uranium, tohium and radium may cause lung cancer.
- Eye Contact:** May cause irritation with discomfort, tearing or blurring of vision.
- Skin Contact:** Not applicable.

Section 5: Emergency and First Aid Procedures:

- Eye: flush thoroughly with water for 15 minutes.
- Skin: remove contaminated clothing, wash thoroughly with soap and water.
- Inhalation: remove to fresh air, may give oxygen if needed.
- Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

- Inhalation:** Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.
- Ingestion:** Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.
- Skin & Eye:** Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

- Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.
- Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.
- Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

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|----------------------------|---------------------------------|
| Boiling Point: N/A | Odor: odorless |
| Solubility in water: trace | Specific Gravity (water=1): N/A |
| Vapor Pressure (mmHg): N/A | Evaporation rate: None |
| Vapor Density (air=1): N/A | % Volatile by volume: None |
| Appearance: coral powder | |

Section 8: Reactivity Data

- Stability: Stable
- Hazardous Polymerization: will not occur
- Incompatibility: None
- Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

- | | |
|------------------|------------------------|
| Flash point: N/A | Flammable Limits: None |
|------------------|------------------------|
- Unusual Fire and Explosion Hazard: None expected
- Extinguishing Media: Carbon dioxide, dry chemical or water
- Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

- Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
- Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6020

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Manganese Alumina Pink 6020
Chemical Abstract Number (CAS): 68186-99-2
Chemical Name: Manganese Alumina Pink - Corundum
Chemical Formula: (Al,Mn)₂O₃

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Manganese Compound (Mn) Cas # 7349-96-5	0.2 mg/m ³	5 mg/m ³	1.0 mg/m ³ 3.0 mg/m ³
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Symptoms of overexposure:

Inhalation: Elemental Manganese fume and dust, when in high concentrations, may adversely affect the central nervous system with symptoms including langour, sleepiness, weakness, emotional disturbances, spastic gait, mash-like facial expressions and paralysis.

Eye Contact: May cause irritation, if persists call doctor.

Skin Contact: May cause abrasions.

Ingestion: In high concentrations if swallowed may cause systemic poisoning.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Scleroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

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Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: pink powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6024,6025,6026,6027

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Orange 6024, Coral Red 6025, Lobster 6026, Tangerine 6027
Chemical Abstract Number (CAS): 72828-62-7
Chemical Name: Pigment & Silica mixture

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Cadmium Compound (Cd)	0.01 mg/m ³ (total)	.005 mg/m ³	0.1 mg/m ³
Cas # 7440-43-9	.002 mg/m ³ (respirable)		

ACGIH,OSHA,IARC,NTP consider various forms of cadmium are to be carcinogenic.

Symptoms of overexposure:

Inhalation: Overexposure to Cd can result in metallic taste in mouth, headache, shortness of breath, chest pains, weakness, leg pains and fluid in the lung. These symptoms may be delayed, sometimes occurring 4 – 8 hrs. after exposure. Long term overexposure to cadmium fumes and dust have been associated with emphysema, bronchitis and kidney damage. Chronic overexposure to metal and cadmium compounds, such as cadmium oxide, cadmium sulfide, cadmium sulfate and cadmium chloride, may result in lung cancer, although a definite cause-effect relationship has not been fully established.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: Swallowing may result in severe nausea, vomiting, diarrhea, stomach cramps, salivation, headache, muscle cramps and dizziness.

Silica, Crystalline (SiO₂)	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
Cas # 14808-60-7		SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Scroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms
Continued

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: bright orange reddish powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CRF, Part 372.

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PLEASE KEEP ON FILE FOR FUTURE REFERENCE. DO NOT THROW AWAY ! MATERIAL SAFETY DATA SHEETS ARE REQUIRED FOR FIRST SHIPMENT, AND WILL BE SENT AGAIN WHEN REVISED UPON YOUR NEXT ORDER OF PRODUCT OR BY REQUEST.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6029

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Persimmon 6029
Chemical Abstract Number (CAS): 68186-88-9, 68201-65-0, 65997-18-4
Chemical Name: Chrome Alumina Zinc Pink - Spinel
Chemical Formula: $Zn(Al,Cr)_2 O_4$

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide ($Al_2 O_3$) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Chrome Oxide ($Cr_2 O_3$) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening de to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Iron Oxide ($Fe_2 O_3$) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Iron Oxide cont'd

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Siderosis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Silica, Crystalline (SiO₂)	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
Cas # 14808-60-7		SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Scleroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or "zinc shakes", an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

- Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.
- Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.
- Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

- | | |
|----------------------------|---------------------------------|
| Boiling Point: N/A | Odor: odorless |
| Solubility in water: trace | Specific Gravity (water=1): N/A |
| Vapor Pressure (mmHg): N/A | Evaporation rate: None |
| Vapor Density (air=1): N/A | % Volatile by volume: None |
| Appearance: pinkish powder | |

Section 8: Reactivity Data

- Stability: Stable
- Hazardous Polymerization: will not occur
- Incompatibility: None
- Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

- Flash point: N/A
- Flammable Limits: None
- Unusual Fire and Explosion Hazard: None expected
- Extinguishing Media: Carbon dioxide, dry chemical or water
- Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

- Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6031

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Deep Salmon 6031
 Chemical Abstract Number (CAS): 68187-12-2,68186-88-9
 Chemical Name: Chrome Tin Zinc Iron Chromite Pink
 Chemical Formula: $\text{CaO} \cdot \text{SnO} \cdot \text{SiO}_2 \cdot \text{Cr}_2\text{O}_3 + (\text{Zn,Fe}) (\text{Fe,Cr})_2\text{O}_4$

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

- Inhalation:** Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.
- Eye Contact:** mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.
- Skin Contact:** Expected to be non irritating.
- Ingestion:** Considered to be non-irritating , non-toxic if swallowed.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Siderosis.
- Eye Contact:** May cause irritation.
- Skin Contact:** May cause mechanical skin irritation.
- Ingestion:** Expected to be non-toxic.

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

continued

Silica, Crystalline (SiO₂)	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
Cas # 14808-60-7		SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Scroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Tin Oxide (SnO)	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
Cas # 21651-19-4			

Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or “zinc shakes”, an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Section 5: Continued

Principal Routes of Entry:

- Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.
- Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.
- Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

- Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.
- Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.
- Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

- | | |
|----------------------------|---------------------------------|
| Boiling Point: N/A | Odor: odorless |
| Solubility in water: trace | Specific Gravity (water=1): N/A |
| Vapor Pressure (mmHg): N/A | Evaporation rate: None |
| Vapor Density (air=1): N/A | % Volatile by volume: None |
| Appearance: pinkish powder | |

Section 8: Reactivity Data

- Stability: Stable
- Hazardous Polymerization: will not occur
- Incompatibility: None
- Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

- Flash point: N/A
- Flammable Limits: None
- Unusual Fire and Explosion Hazard: None expected
- Extinguishing Media: Carbon dioxide, dry chemical or water
- Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

- Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
- Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

*ALL retailers of this product are **REQUIRED** by law to supply their customers with a copy of this material safety data sheet with initial purchase.*

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (**SARA**) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CRF, Part 372.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6032,6069

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Zirconium Iron Coral 6032, Dark Coral 6069
 Chemical Abstract Number (CAS): 68187-13-2
 Chemical Name: Zirconium Iron Coral - Zircon
 Chemical Formula: (Zr,Fe) SiO₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
		<u>SiO₂ + 2</u>	

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms
Continued

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

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Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: coral powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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*****SARA 313**

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Last issued: 11/97

Updated : 3/2000

Product Number: 6052

Section 1: Manufacturer Identification

Mason Color Works, Inc. Phone: (330) 385-4400
 250 East 2nd Street/P.O. Box 76 Fax: (330) 385-4488
 East Liverpool, OH 43920-5076

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Doll Flesh 6052
 Chemical Abstract Number (CAS): 68186-99-2, 68186-88-9
 Chemical Name: Manganese Alumina Zinc Iron Chromite Pink
 Chemical Formula: (Al,Mn)₂O₃ + (Zn,Fe) (Fe,Cr)₂ O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening de to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Iron Oxide cont'd

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Siderosis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Manganese Compound (Mn)	0.2 mg/m ³	5 mg/m ³	1.0 mg/m ³
Cas # 7349-96-5			3.0 mg/m ³

Symptoms of overexposure:

Inhalation: Elemental Manganese fume and dust, when in high concentrations, may adversely affect the central nervous system with symptoms including languor, sleepiness, weakness, emotional disturbances, spastic gait, mask-like facial expressions and paralysis.

Eye Contact: May cause irritation, if persists call doctor.

Skin Contact: May cause abrasions.

Ingestion: In high concentrations if swallowed may cause systemic poisoning.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or "zinc shakes", an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6065

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Chrome Alumina Pink 6065
 Chemical Abstract Number (CAS): 68201-65-0
 Chemical Name: Chrome Alumina Zinc Pink
 Chemical Formula: $Zn(Al,Cr)_2O_4$

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al_2O_3) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.
- Eye Contact:** Direct contact may cause irritation.
- Skin Contact:** May cause abrasions.
- Ingestion:** May cause irritation.

Chrome Oxide (Cr_2O_3) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

- Inhalation:** Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.
- Eye Contact:** mechanical irritation to the eye may occur such as watering, reddening de to exposure to fines.
- Skin Contact:** Expected to be non irritating.
- Ingestion:** Considered to be non-irritating , non-toxic if swallowed.

Chrome Oxide (Cr₂O₃) 0.5 mg/m³ 0.5 mg/m³ 0.5 mg/m³
Cas # 1313-13-2

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
 Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: pink powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6100

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Woodland Brown 6100
Chemical Abstract Number (CAS): 68186-88-9
Chemical Name: Zinc Iron Chromite - Spinel
Chemical Formula: (Zn,Fe)(Fe,Cr)₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Siderosis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Tin Oxide (SnO)	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
Cas # 21651-19-4			

Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or “zinc shakes”, an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A	Odor: oderless
Solubility in water: trace	Specific Gravity (water=1): N/A
Vapor Pressure (mmHg): N/A	Evaporation rate: None
Vapor Density (air=1): N/A	% Volatile by volume: None
Appearance: brown powder	

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A	Flammable Limits: None
Unusual Fire and Explosion Hazard: None expected	
Extinguishing Media: Carbon dioxide, dry chemical or water	
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.	

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vaccum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

********Attention All Retailers of Mason Stains********

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******SARA 313***

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6101,6153

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Chestnut Brown 6101, Seal Brown 6153
Chemical Abstract Number (CAS): 68186-96-9
Chemical Name: Chrome Iron Manganese Brown - Spinel
Chemical Formula: (Fe,Mn)(Fe,Cr,Mn)₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating, non-toxic if swallowed.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Siderosis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Manganese Compound (Mn) Cas # 7349-96-5	0.2 mg/m ³	5 mg/m ³	1.0 mg/m ³ 3.0 mg/m ³
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Manganese Compound cont'd

Symptoms of overexposure:

Inhalation: Elemental Manganese fume and dust, when in high concentrations, may adversely affect the central nervous system with symptoms including languor, sleepiness, weakness, emotional disturbances, spastic gait, mask-like facial expressions and paralysis.

Eye Contact: May cause irritation, if persists call doctor.

Skin Contact: May cause abrasions.

Ingestion: In high concentrations if swallowed may cause systemic poisoning.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or "zinc shakes", an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: brown powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6103,6107,6109,6121,6122,6123,6125,6126,6129,6163,6166

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic

Product Names: Golden 6103, Dark Golden 6107, Deep Brown 6109, Saturn Orange 6121, Cedar 6122, Saddle 6123, Leather 6125, Hazelnut 6126, Golden Ambrosia 6129, Terra Cotta 6163, Camel Beige 6166

Chemical Abstract Number (CAS): 68186-88-9

Chemical Name: Chrome Iron Manganese Brown - Spinel

Chemical Formula: (Zn,Fe)(Fe,Cr)₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening de to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Iron Oxide cont'd

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Siderosis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or "zinc shakes", an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: brown powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6108

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Walnut Brown 6108
 Chemical Abstract Number (CAS): 68186-96-9
 Chemical Name: Chrome Iron Manganese Brown Spinel
 Chemical Formula: (Fe,Mn) (Fe,Cr,Mn)₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.
- Eye Contact:** Direct contact may cause irritation.
- Skin Contact:** May cause abrasions.
- Ingestion:** May cause irritation.

and cadmium chloride, may result in lung cancer, although a definite cause-effect relationship has not been fully established.

- Eye Contact:** May cause irritation.
- Skin Contact:** May cause irritation.
- Ingestion:** Swallowing may result in severe nausea, vomiting, diarrhea, stomach cramps, salivation, headache, muscle cramps and dizziness.

Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

- Inhalation:** Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.
- Eye Contact:** mechanical irritation to the eye may occur such as watering, reddening de to exposure to fines.
- Skin Contact:** Expected to be non irritating.
- Ingestion:** Considered to be non-irritating , non-toxic if swallowed.

Iron Oxide (Fe₂O₃)	5 mg/m ³	10 mg/m ³	5 mg/m ³
Cas # 1309-37-1			

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Siderosis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Manganese Compound (Mn)	0.2 mg/m ³	5 mg/m ³	1.0 mg/m ³
Cas # 7349-96-5			3.0 mg/m ³

Symptoms of overexposure:

Inhalation: Elemental Manganese fume and dust, when in high concentrations, may adversely affect the central nervous system with symptoms including languor, sleepiness, weakness, emotional disturbances, spastic gait, mask-like facial expressions and paralysis.

Eye Contact: May cause irritation, if persists call doctor.

Skin Contact: May cause abrasions.

Ingestion: In high concentrations if swallowed may cause systemic poisoning.

Silica, Crystalline (SiO₂)	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
Cas # 14808-60-7		<hr style="width: 50px; margin: 0 auto;"/> SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Scleroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or "zinc shakes", an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: brown powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

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*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (**SARA**) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6110

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Violet of Iron 6110
Chemical Abstract Number (CAS): 68187-35-9,65997-18-4
Chemical Name: Iron Red - Hematite
Chemical Formula: Fe₂O₃ + Al₂SiO₂

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: brown powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6111

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Spice Brown 6111
Chemical Abstract Number (CAS): 68186-88-9
Chemical Name: Zinc Tin Iron - Spinel
Chemical Formula: (Zn,Fe)(Fe,Sn)O₆

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Tin Oxide (SnO) Cas # 21651-19-4	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
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Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Zinc Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³	10 mg/m ³ (Total) 5 mg/m ³ (Respirable)	5 mg/m ³
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Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or "zinc shakes", an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: brown powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6113,6132,6133,6134

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Claret 6113,Red Brown 6132,Sorrel 6133,Red Brown 6134
Chemical Abstract Number (CAS): 68186-88-9
Chemical Name: Zinc Iron Chromite - Spinel
Chemical Formula: (Zn,Fe)(Fe,Cr)₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Silicosis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Zinc Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³	10 mg/m ³ (Total) 5 mg/m ³ (Respirable)	5 mg/m ³
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Zinc Oxide cont'd

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or "zinc shakes", an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

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Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: brown powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6119

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Russet Brown 6119
 Chemical Abstract Number (CAS): 68186-88-9,68553-01-5,10101-52-7
 Chemical Name: Zinc Iron Chrome Calcium Silicate Brown
 Chemical Formula: (Zn,Fe)(Fe,Cr)₂O₄ + 3 CaO.SiO₂

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening de to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or "zinc shakes", an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A	Odor: odorless
Solubility in water: trace	Specific Gravity (water=1): N/A
Vapor Pressure (mmHg): N/A	Evaporation rate: None
Vapor Density (air=1): N/A	% Volatile by volume: None
Appearance: brown powder	

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A	Flammable Limits: None
Unusual Fire and Explosion Hazard: None expected	
Extinguishing Media: Carbon dioxide, dry chemical or water	
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.	

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

********Attention All Retailers of Mason Stains********

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******SARA 313***

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (**SARA**) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6124,6160

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Chocolate Brown 6124, Dark Chocolate Brown 6160
 Chemical Abstract Number (CAS): 68186-96-9,68186-88-9
 Chemical Name: Chrome Iron Manganese Zinc Brown – Spinel
 Chemical Formula: (Fe,Mn)(Fe,Cr,Mn)₂O₄ + (Zn,Fe)

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

- Inhalation:** Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.
- Eye Contact:** mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.
- Skin Contact:** Expected to be non irritating.
- Ingestion:** Considered to be non-irritating , non-toxic if swallowed.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Siderosis.
- Eye Contact:** May cause irritation.
- Skin Contact:** May cause mechanical skin irritation.
- Ingestion:** Expected to be non-toxic.

Manganese Compound (Mn) Cas # 7349-96-5	0.2 mg/m ³	5 mg/m ³	1.0 mg/m ³ 3.0 mg/m ³
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Manganese Compound cont'd

Symptoms of overexposure:

Inhalation: Elemental Manganese fume and dust, when in high concentrations, may adversely affect the central nervous system with symptoms including languor, sleepiness, weakness, emotional disturbances, spastic gait, mask-like facial expressions and paralysis.

Eye Contact: May cause irritation, if persists call doctor.

Skin Contact: May cause abrasions.

Ingestion: In high concentrations if swallowed may cause systemic poisoning.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or "zinc shakes", an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: brown powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6131

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Titanium Iron Brown 6131
Chemical Abstract Number (CAS): 68187-02-0
Chemical Name: Iron Titanium Brown - Spinel
Chemical Formula: Fe₂TiO₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Titanium Dioxide (TiO₂) Cas # 13463-67-7	10 mg/m ³	10 mg/m ³ (total) 5 mg/m ³ (respirable)	0.2 mg/m ³
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Symptoms of overexposure:

Inhalation: Inhalation of dust can cause irritation of the nose, throat, and lungs.

Eye Contact: Like any foreign body, particles can cause mechanical irritation.

Skin Contact: This material can cause irritation if not promptly washed form skin.

Ingestion: This material is not expected to produce adverse effects.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

- Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.
- Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.
- Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

- Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.
- Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.
- Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

- | | |
|----------------------------|---------------------------------|
| Boiling Point: N/A | Odor: odorless |
| Solubility in water: trace | Specific Gravity (water=1): N/A |
| Vapor Pressure (mmHg): N/A | Evaporation rate: None |
| Vapor Density (air=1): N/A | % Volatile by volume: None |
| Appearance: brown powder | |

Section 8: Reactivity Data

- Stability: Stable
- Hazardous Polymerization: will not occur
- Incompatibility: None
- Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

- Flash point: N/A
- Flammable Limits: None
- Unusual Fire and Explosion Hazard: None expected
- Extinguishing Media: Carbon dioxide, dry chemical or water
- Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

- Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
- Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

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*****SARA 313**

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Last issued: 11/97

Updated : 3/2000

Product Number: 6149

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Iron Silicate 6149
 Chemical Abstract Number (CAS): 1345-28-4
 Chemical Name: Iron Silicate
 Chemical Formula: Fe₂SiO₅

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
		SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: brown powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6190,6666

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Deep Brown 6190, Cobalt-free Black 6666
 Chemical Abstract Number (CAS): 68555-06-6
 Chemical Name: Chrome Iron Manganese - Spinel
 Chemical Formula: (Fe,Mn)(Fe,Cr,Mn)O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

- Inhalation:** Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.
- Eye Contact:** mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.
- Skin Contact:** Expected to be non irritating.
- Ingestion:** Considered to be non-irritating , non-toxic if swallowed.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Siderosis.
- Eye Contact:** May cause irritation.
- Skin Contact:** May cause mechanical skin irritation.
- Ingestion:** Expected to be non-toxic.

Manganese Compound (Mn) Cas # 7349-96-5	0.2 mg/m ³	5 mg/m ³	1.0 mg/m ³ 3.0 mg/m ³
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Manganese Compound cont'd

Symptoms of overexposure:

Inhalation: Elemental Manganese fume and dust, when in high concentrations, may adversely affect the central nervous system with symptoms including languor, sleepiness, weakness, emotional disturbances, spastic gait, mask-like facial expressions and paralysis.

Eye Contact: May cause irritation, if persists call doctor.

Skin Contact: May cause abrasions.

Ingestion: In high concentrations if swallowed may cause systemic poisoning.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: brown powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6194

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Manganese Silicate 6194
 Chemical Abstract Number (CAS): 7759-00-4
 Chemical Name: Manganese Silicate
 Chemical Formula: MnSiO₃

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Manganese Compound (Mn) Cas # 7349-96-5	0.2 mg/m ³	5 mg/m ³	1.0 mg/m ³ 3.0 mg/m ³

Symptoms of overexposure:

Inhalation: Elemental Manganese fume and dust, when in high concentrations, may adversely affect the central nervous system with symptoms including languor, sleepiness, weakness, emotional disturbances, spastic gait, mask-like facial expressions and paralysis.

Eye Contact: May cause irritation, if persists call doctor.

Skin Contact: May cause abrasions.

Ingestion: In high concentrations if swallowed may cause systemic poisoning.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Symptoms of overexposure:

Inhalation:

- associated with increased incidence of Scroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.
- There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: brown powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

*ALL retailers of this product are **REQUIRED** by law to supply their customers with a copy of this material safety data sheet with initial purchase.*

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (**SARA**) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6200,6202,6296

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Evergreen 6200, Florentine Green 6202, Dark Spruce Green 6296
Chemical Abstract Number (CAS): 68187-49-5
Chemical Name: Cobalt Chromite - Spinel
Chemical Formula: CoCr_2O_4

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr_2O_3) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating, non-toxic if swallowed.

Cobalt Oxide (Co_3O_4) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologic studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: green powder

Odor: oderless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6201,6224,6244,6246,6254,6255,6305,6343

Section 1: Manufacturer Identification

Mason Color Works, Inc. Phone: (330) 385-4400
 250 East 2nd Street/P.O. Box 76 Fax: (330) 385-4488
 East Liverpool, OH 43920-5076

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Celadon 6201, Dark Green 6224, Deep Sea 6244, Blue Green 6246, Dark Teal Green 6254, Jade 6255, Teal Blue 6305, Mediterranean Blue 6343
 Chemical Abstract Number (CAS): 68197-49-5
 Chemical Name: Cobalt Chromite Blue Green - Spinel
 Chemical Formula: $CoCr_2O_4$

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al_2O_3) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.
- Eye Contact:** Direct contact may cause irritation.
- Skin Contact:** May cause abrasions.
- Ingestion:** May cause irritation.

Chrome Oxide (Cr_2O_3) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

- Inhalation:** Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.
- Eye Contact:** mechanical irritation to the eye may occur such as watering, reddening de to exposure to fines.
- Skin Contact:** Expected to be non irritating.
- Ingestion:** Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co_3O_4) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Cobalt Oxide cont'd

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO₂)	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
Cas # 14808-60-7		<hr style="width: 50%; margin-left: auto; margin-right: 0;"/>	
		SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or "zinc shakes", an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A	Odor: oderless
Solubility in water: trace	Specific Gravity (water=1): N/A
Vapor Pressure (mmHg): N/A	Evaporation rate: None
Vapor Density (air=1): N/A	% Volatile by volume: None
Appearance: green powder	

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A	Flammable Limits: None
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Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vaccum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6204,6206,6263,6264

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Victoria Green 6204, Grass Green 6206, Victoria Green 6263, 6264
Chemical Abstract Number (CAS): 68553-01-5
Chemical Name: Victoria Green – Garnet
Chemical Formula: 3CaO.Cr₂O₃.3SiO₂

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Symptoms of overexposure:

Inhalation:

- Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Zirconium Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³ (total) 5 mg/m ³ (respirable)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	5 mg/m ³ 15 min. C
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Zirconium Oxide Cont'd

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: green powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6207, 6219,6268

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Celeste Green 6207, French Green 6219, Sea Green 6268
Chemical Abstract Number (CAS): 68187-49-5
Chemical Name: Cobalt Chomite - Spinel
Chemical Formula: $CoCr_2O_4$

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr_2O_3) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co_3O_4) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO_2) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline contd.

Symptoms of overexposure:

Inhalation:

- Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or “zinc shakes”, an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Section 6 : cont'd

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A	Odor: oderless
Solubility in water: trace	Specific Gravity (water=1): N/A
Vapor Pressure (mmHg): N/A	Evaporation rate: None
Vapor Density (air=1): N/A	% Volatile by volume: None
Appearance: green powder	

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A	Flammable Limits: None
Unusual Fire and Explosion Hazard: None expected	
Extinguishing Media: Carbon dioxide, dry chemical or water	
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.	

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vaccum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

********Attention All Retailers of Mason Stains********

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******SARA 313***

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (**SARA**) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CRF, Part 372.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6209,6223

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Chrome Green 6207, Ivy Green 6223
 Chemical Abstract Number (CAS): 680909-79-5
 Chemical Name: Chromium Green - Hematite
 Chemical Formula: Cr₂O₃

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Chromium Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening de to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: green powder

Odor: oderless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6211,6236

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Pea Green 6211, Chartreuse 6236
Chemical Abstract Number (CAS): 68186-95-8,68186-93-6
Chemical Name: Zirconium Tin Vanadium Green
Chemical Formula: (Zr,V)SiO₄ + (Sn,V)O₂

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
		SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Tin Oxide (SnO) Cas # 21651-19-4	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
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Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Vanadium Oxide (VO₃) Cas # 1314-62-1	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
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Vanadium Oxide cont'd

Symptoms of overexposure:

Inhalation: Irritation of the respiratory tract, chest tightness, wheezing, coughing.

Eye Contact: Irritation possible with corneal injury.

Skin Contact: Irritation with reddening and itching. Absorption of harmful amounts possible.

Ingestion: Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: green powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6221,6265,6271

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Turquoise Green 6221, Leaf Green 6265, Mint Green 6271
Chemical Abstract Number (CAS): 68187-49-5,10101-52-7
Chemical Name: Cobalt Chromite - Spinel
Chemical Formula: CoCr_2O_4

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr_2O_3) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

- Inhalation:** Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.
- Eye Contact:** mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.
- Skin Contact:** Expected to be non irritating.
- Ingestion:** Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co_3O_4) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologic studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

- Inhalation:** Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.
- Eye Contact:** May cause serious eye irritation.
- Skin Contact:** Prolonged exposure may produce irritation.
- Ingestion:** Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO_2) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or “zinc shakes”, an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, tohium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6226

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Dark Leaf Green 6226
Chemical Abstract Number (CAS): 68187-49-5,1308-31-2,133258-7
Chemical Name: Cobalt Chromite - Spinel
Chemical Formula: CoCr_2O_4

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al_2O_3) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Chrome Oxide (Cr_2O_3) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening de to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co_3O_4) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Principal Routes of Entry:

- Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.
- Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.
- Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

- Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.
- Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.
- Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

- | | |
|----------------------------|---------------------------------|
| Boiling Point: N/A | Odor: odorless |
| Solubility in water: trace | Specific Gravity (water=1): N/A |
| Vapor Pressure (mmHg): N/A | Evaporation rate: None |
| Vapor Density (air=1): N/A | % Volatile by volume: None |
| Appearance: green powder | |

Section 8: Reactivity Data

- Stability: Stable
- Hazardous Polymerization: will not occur
- Incompatibility: None
- Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

- Flash point: N/A
- Flammable Limits: None
- Unusual Fire and Explosion Hazard: None expected
- Extinguishing Media: Carbon dioxide, dry chemical or water
- Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

- Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
- Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (**SARA**) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

The information contained in this Material Safety Data Sheet must be provided to every employee who is exposed to this product in any way. We recommend the user reads and understands the contents herein before using this material.

PLEASE KEEP ON FILE FOR FUTURE REFERENCE. DO NOT THROW AWAY ! MATERIAL SAFETY DATA SHEETS ARE REQUIRED FOR FIRST SHIPMENT, AND WILL BE SENT AGAIN WHEN REVISED UPON YOUR NEXT ORDER OF PRODUCT OR BY REQUEST.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6234,6371,6398

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Myrtle Green 6234, Dark Teal Blue 6371, Deep Peacock 6398
Chemical Abstract Number (CAS): 68187-49-5
Chemical Name: Cobalt Chromite - Spinel
Chemical Formula: CoCr_2O_4

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al_2O_3) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.
- Eye Contact:** Direct contact may cause irritation.
- Skin Contact:** May cause abrasions.
- Ingestion:** May cause irritation.

Chrome Oxide (Cr_2O_3) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

- Inhalation:** Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.
- Eye Contact:** mechanical irritation to the eye may occur such as watering, reddening de to exposure to fines.
- Skin Contact:** Expected to be non irritating.
- Ingestion:** Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co_3O_4) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Cobalt Oxide cont'd

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: blue green powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

***SARA 313

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6242

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Bermuda Green 6242
Chemical Abstract Number (CAS): 68186-95-8,68187-15-5
Chemical Name: Zirconium Praseodymium Vanadium Green
Chemical Formula: (Zr,Pr)SiO₄ (Zr,V)

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
		SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.**Skin Contact:** Not applicable.**Ingestion:** Not applicable.

Vanadium Oxide (VO₃) Cas # 1314-62-1	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
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Symptoms of overexposure:

Inhalation: Irritation of the respiratory tract, chest tightness, wheezing, coughing.**Eye Contact:** Irritation possible with corneal injury.**Skin Contact:** Irritation with reddening and itching. Absorption of harmful amounts possible.**Ingestion:** Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

Zirconium Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³ (total) 5 mg/m ³ (respirable)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	5 mg/m ³ 15 min. C
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Zirconium Oxide cont'd

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: blue green powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6266

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Peacock Green 6266
Chemical Abstract Number (CAS): 68187-49-5
Chemical Name: Cobalt Chromite - Spinel
Chemical Formula: CoCr_2O_4

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr_2O_3) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating, non-toxic if swallowed.

Cobalt Oxide (Co_3O_4) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologic studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: blue green powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

*ALL retailers of this product are **REQUIRED** by law to supply their customers with a copy of this material safety data sheet with initial purchase.*

*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6267

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Emerald Green 6267
Chemical Abstract Number (CAS): 68553-01-5
Chemical Name: Victoria Green Garnet + Cobalt Chromite – Spinel
Chemical Formula: $3\text{CaO}\cdot\text{Cr}_2\text{O}_3\cdot 3\text{SiO}_2\cdot\text{CoCr}_2\text{O}_4$

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologic studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, tohium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A
Solubility in water: trace
Vapor Pressure (mmHg): N/A
Vapor Density (air=1): N/A
Appearance: blue green powder

Odor: odorless
Specific Gravity (water=1): N/A
Evaporation rate: None
% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

***SARA 313

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CRF, Part 372.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6274

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Nickel Silicate Green – Olivine
 Chemical Abstract Number (CAS): 68515-84-4
 Chemical Name: Nickel Silicate Green – Olivine
 Chemical Formula: Ni₂SiO₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Nickel Oxide (NiO) Cas # 7440-02-0	0.2 mg/m ³	1 mg/m ³	0.015 mg/m ³

ACGIH: Inhalable fraction, the concentration of inhalable particulate for application of this TLV is to be determined from the fraction passing a size-selector with characteristics defined in (A1). (A1) – Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence, in exposed humans. (Ca) Carcinogen.

Symptoms of overexposure:

- Inhalation:** Primary enters through inhalation of dust.
- Eye Contact:** May cause irritation in eyes and mucous membranes.
- Skin Contact:** May irritate skin, can cause “Nickel Itch” in sensitive persons.
- Ingestion:** Low order of acute toxicity. May cause gastro-intestinal disorders.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Symptoms of overexposure:

- Inhalation:**
 - a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
 - b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
 - c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
 - d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)
- Eye Contact:** May cause abrasions of the cornea.
- Skin Contact:** Not applicable.
- Ingestion:** Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: green powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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******SARA 313***

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Last issued: 11/97
Updated : 3/2000

Product Number: 6280

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Avocado 6280
Chemical Abstract Number (CAS): 68187-01-9,68187-49-5,68186-88-9
Chemical Name: Cobalt Chrome Zirconium Vanadium Green
Chemical Formula: $\text{CoCr}_2\text{O}_4 + (\text{Zr,V})\text{O}_2$

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr_2O_3) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating, non-toxic if swallowed.

Cobalt Oxide (Co_3O_4) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologic studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO_2) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Vanadium Oxide (VO₃)	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
Cas # 1314-62-1			

Symptoms of overexposure:

Inhalation: Irritation of the respiratory tract, chest tightness, wheezing, coughing.

Eye Contact: Irritation possible with corneal injury.

Skin Contact: Irritation with reddening and itching. Absorption of harmful amounts possible.

Ingestion: Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, tohium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6288

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Turquoise Green 6288
 Chemical Abstract Number (CAS): 68286-95-8,65997-18-4,68553-01-5
 Chemical Name: Zirconium Vanadium Chromium Turquoise
 Chemical Formula: $3\text{CaO}\cdot\text{Cr}_2\text{O}_3\cdot 3\text{SiO}_2 + (\text{Zr},\text{V})\text{SiO}_4$

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Symptoms of overexposure:

Inhalation:

- Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Vanadium Oxide (VO₃)	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
Cas # 1314-62-1			

Symptoms of overexposure:

Inhalation: Irritation of the respiratory tract, chest tightness, wheezing, coughing.

Eye Contact: Irritation possible with corneal injury.

Skin Contact: Irritation with reddening and itching. Absorption of harmful amounts possible.

Ingestion: Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: green powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6300, 6313

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Mazerine Blue 6300, Medium Blue 6313
Chemical Abstract Number (CAS):68412-74-8
Chemical Name: Cobalt Zinc Silicate Blue - Phenacite
Chemical Formula: (Co,Zn)₂SiO₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A

ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologic studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
		SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms
Continued

Zinc Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³	10 mg/m ³ (Total) 5 mg/m ³ (Respirable)	5 mg/m ³
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Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or “zinc shakes”, an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

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Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: blue powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6302, 6317, 6318, 6331, 6332, 6333, 6336,6360

Section 1: Manufacturer Identification

Mason Color Works, Inc. Phone: (330) 385-4400
 250 East 2nd Street/P.O. Box 76 Fax: (330) 385-4488
 East Liverpool, OH 43920-5076

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Cadet Blue 6302, Lavender 6317, Amethyst 6318, Orchid 6331, 6332, Lavender 6333, Peacock 6336, Willow Blue 6360
 Chemical Abstract Number (CAS): 68187-49-5,18282-10-5
 Chemical Name: Cobalt Chromite - Spinel
 Chemical Formula: $CoCr_2O_4$

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al_2O_3) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.
- Eye Contact:** Direct contact may cause irritation.
- Skin Contact:** May cause abrasions.
- Ingestion:** May cause irritation.

Chrome Oxide (Cr_2O_3) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

- Inhalation:** Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.
- Eye Contact:** mechanical irritation to the eye may occur such as watering, reddening de to exposure to fines.
- Skin Contact:** Expected to be non irritating.
- Ingestion:** Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co_3O_4) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Cobalt Cont'd

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
		SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Tin Oxide (SnO) Cas # 21651-19-4	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
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Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Zinc Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³	10 mg/m ³ (Total) 5 mg/m ³ (Respirable)	5 mg/m ³
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Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or “zinc shakes”, an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: blue powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

*ALL retailers of this product are **REQUIRED** by law to supply their customers with a copy of this material safety data sheet with initial purchase.*

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (**SARA**) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

The information contained in this Material Safety Data Sheet must be provided to every employee who is exposed to this product in any way. We recommend the user reads and understands the contents herein before using this material.

PLEASE KEEP ON FILE FOR FUTURE REFERENCE. DO NOT THROW AWAY ! MATERIAL SAFETY DATA SHEETS ARE REQUIRED FOR FIRST SHIPMENT, AND WILL BE SENT AGAIN WHEN REVISED UPON YOUR NEXT ORDER OF PRODUCT OR BY REQUEST.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6303,6387

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Deep Orchid 6303, Mulberry 6387
Chemical Abstract Number (CAS): 68187-12-2, 68608-9-3
Chemical Name: Chrome Tin Cobalt - Purple
Chemical Formula: CaO SnO.SiO₂: Cr₂O₃ + CoAl₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening do to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Cobalt Oxide cont'd

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO₂)	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
Cas # 14808-60-7		SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- a) associated with increased incidence of Scroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Tin Oxide (SnO)	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
Cas # 21651-19-4			

Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A	Odor: oderless
Solubility in water: trace	Specific Gravity (water=1): N/A
Vapor Pressure (mmHg): N/A	Evaporation rate: None
Vapor Density (air=1): N/A	% Volatile by volume: None
Appearance: purple powder	

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A	Flammable Limits: None
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Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vaccum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

********Attention All Retailers of Mason Stains********

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

******SARA 313***

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

The information contained in this Material Safety Data Sheet must be provided to every employee who is exposed to this product in any way. We recommend the user reads and understands the contents herein before using this material.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6304

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Chrome Tin Violet 6304
Chemical Abstract Number (CAS): 68187-12-2
Chemical Name: Chrome Tin Violet - Sphene
Chemical Formula: Ca.SnO SiO₂Cr₂O₃

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening do to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Symptoms of overexposure:

Inhalation:

a) associated with increased incidence of Sceroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.

b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)

c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.

d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Tin Oxide (SnO) Cas # 21651-19-4	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
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Tin Oxide cont'd

Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: purple powder

Odor: oderless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

*****SARA 313**

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Last issued: 11/97

Updated : 3/2000

Product Number: 6310,6363

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Wedgewood Blue 6310, Sky Blue 6363
Chemical Abstract Number (CAS): 68186-86-7
Chemical Name: Cobalt Aluminate Blue - Spinel
Chemical Formula: $CoAl_2O_4$

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al_2O_3) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.
- Eye Contact:** Direct contact may cause irritation.
- Skin Contact:** May cause abrasions.
- Ingestion:** May cause irritation.

Cobalt Oxide (Co_3O_4) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

- Inhalation:** Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.
- Eye Contact:** May cause serious eye irritation.
- Skin Contact:** Prolonged exposure may produce irritation.
- Ingestion:** Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO_2) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Scleroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: blue powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6315,6364,6374,6376,6378,6391

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Zirconium Vanadium Blue 6315, Turquoise Blue 6364, Dark Turquoise 6374, Robin's Egg Blue 6376, Zirconium Vanadium Blue 6378, Zirconium Vanadium Blue 6391
Chemical Abstract Number (CAS): 68186-95-8
Chemical Name: Zirconium Vanadium Blue - Zircon
Chemical Formula (Zr,V) SiO₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
		----- SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Vanadium Oxide (VO₃) Cas # 1314-62-1	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
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Symptoms of overexposure:

Inhalation: Irritation of the respiratory tract, chest tightness, wheezing, coughing.

Eye Contact: Irritation possible with corneal injury.

Skin Contact: Irritation with reddening and itching. Absorption of harmful amounts possible.

Ingestion: Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

Zirconium Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³ (total) 5 mg/m ³ (respirable)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	5 mg/m ³ 15 min. C
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Zirconium Oxide cont'd

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: blue powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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PLEASE KEEP ON FILE FOR FUTURE REFERENCE. DO NOT THROW AWAY ! MATERIAL SAFETY DATA SHEETS ARE REQUIRED FOR FIRST SHIPMENT, AND WILL BE SENT AGAIN WHEN REVISED UPON YOUR NEXT ORDER OF PRODUCT OR BY REQUEST.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6319

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Lavender 6319
 Chemical Abstract Number (CAS): 68186-99-2,68186-89-7
 Chemical Name: Manganese Aluminate Cobalt Lavender
 Chemical Formula: (Al,Mn)₂O₃ + CoAl₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Manganese Compound (Mn) Cas # 7349-96-5	0.2 mg/m ³	5 mg/m ³	1.0 mg/m ³ 3.0 mg/m ³
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Manganese Compound cont'd

Symptoms of overexposure:

Inhalation: Elemental Manganese fume and dust, when in high concentrations, may adversely affect the central nervous system with symptoms including languor, sleepiness, weakness, emotional disturbances, spastic gait, mask-like facial expressions and paralysis.

Eye Contact: May cause irritation, if persists call doctor.

Skin Contact: May cause abrasions.

Ingestion: In high concentrations if swallowed may cause systemic poisoning.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
		<hr style="width: 50%; margin: 0 auto;"/>	
		SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- a) associated with increased incidence of Scleroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Zinc Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³	10 mg/m ³ (Total) 5 mg/m ³ (Respirable)	5 mg/m ³
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Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or "zinc shakes", an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.

Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

- Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.
- Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.
- Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

- | | |
|----------------------------|---------------------------------|
| Boiling Point: N/A | Odor: odorless |
| Solubility in water: trace | Specific Gravity (water=1): N/A |
| Vapor Pressure (mmHg): N/A | Evaporation rate: None |
| Vapor Density (air=1): N/A | % Volatile by volume: None |
| Appearance: purple powder | |

Section 8: Reactivity Data

- Stability: Stable
- Hazardous Polymerization: will not occur
- Incompatibility: None
- Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

- Flash point: N/A
- Flammable Limits: None
- Unusual Fire and Explosion Hazard: None expected
- Extinguishing Media: Carbon dioxide, dry chemical or water
- Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

- Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
- Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6320

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Delft Blue 6320
Chemical Abstract Number (CAS): 68186-86-7,18282-10-5
Chemical Name: Cobalt Alumina Blue - Spinel
Chemical Formula: $CoAl_2O_4 + Zn_0.SiO_2 SnO_2$

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al_2O_3) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.
- Eye Contact:** Direct contact may cause irritation.
- Skin Contact:** May cause abrasions.
- Ingestion:** May cause irritation.

Cobalt Oxide (Co_3O_4) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologists studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

- Inhalation:** Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.
- Eye Contact:** May cause serious eye irritation.
- Skin Contact:** Prolonged exposure may produce irritation.
- Ingestion:** Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO_2) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Tin Oxide (SnO)	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
Cas # 21651-19-4			

Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or “zinc shakes”, an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A	Odor: oderless
Solubility in water: trace	Specific Gravity (water=1): N/A
Vapor Pressure (mmHg): N/A	Evaporation rate: None
Vapor Density (air=1): N/A	% Volatile by volume: None
Appearance: blue powder	

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A	Flammable Limits: None
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Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vaccum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

********Attention All Retailers of Mason Stains********

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

******SARA 313***

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Last issued: 11/97

Updated : 3/2000

Product Number: 6324

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Lavender 6324
Chemical Abstract Number (CAS): 68187-12-2,68186-86-7,10101-52-7
Chemical Name: Chrome Tin Cobalt Purple
Chemical Formula: CaOSnOSiO₂:CoCr₂O₃ + Co Al₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening do to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Cobalt Oxide cont'd

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO₂)	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
Cas # 14808-60-7		<hr style="width: 50%; margin: 0 auto;"/>	
		SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- a) associated with increased incidence of Scroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Tin Oxide (SnO)	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
Cas # 21651-19-4			

Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or "zinc shakes", an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Zirconium Compound cont'd

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: purple powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6330,6383,6389

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Cobalt Aluminate 6330, Cobalt Aluminate 6383, Sapphire Blue 6389
Chemical Abstract Number (CAS): 1345-16-0
Chemical Name: Cobalt Aluminate Blue - Spinel
Chemical Formula: CoAl_2O_4

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al_2O_3) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Cobalt Oxide (Co_3O_4) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: blue powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

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Last issued: 11/97
Updated : 3/2000

Product Number: 6338,6388

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Cobalt Meta-Silicate 6338, Mazerine Blue 6388
 Chemical Abstract Number (CAS): 68187-40-6
 Chemical Name: Cobalt Silicate Blue – Olovine
 Chemical Formula: Co_2SiO_4

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Cobalt Oxide (Co_3O_4) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A

ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologic studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

- Inhalation:** Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.
- Eye Contact:** May cause serious eye irritation.
- Skin Contact:** Prolonged exposure may produce irritation.
- Ingestion:** Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO_2) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Symptoms of overexposure:

- Inhalation:**
 - a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
 - b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
 - c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
 - d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

- Eye Contact:** May cause abrasions of the cornea.
- Skin Contact:** Not applicable.
- Ingestion:** Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: purple powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6339

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Royal Blue 6339
 Chemical Abstract Number (CAS): 68187-40-6
 Chemical Name: Cobalt Silicate Blue – Olovine
 Chemical Formula: Co_2SiO_4

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al_2O_3) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Cobalt Oxide (Co_3O_4) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Zinc Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³	10 mg/m ³ (Total) 5 mg/m ³ (Respirable)	5 mg/m ³
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Zinc Oxide cont'd

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or "zinc shakes", an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: blue powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6350

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Bright Blue 6350
Chemical Abstract Number (CAS): 68186-95-8,68187-40-6
Chemical Name: Cobalt Silicate Blue - Olovine
Chemical Formula: (Zr,V) SiO₄ Co₂

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.
- Eye Contact:** Direct contact may cause irritation.
- Skin Contact:** May cause abrasions.
- Ingestion:** May cause irritation.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologists studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

- Inhalation:** Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.
- Eye Contact:** May cause serious eye irritation.
- Skin Contact:** Prolonged exposure may produce irritation.
- Ingestion:** Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Scleroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Vanadium Oxide (VO₃)	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
Cas # 1314-62-1			

Symptoms of overexposure:

Inhalation: Irritation of the respiratory tract, chest tightness, wheezing, coughing.

Eye Contact: Irritation possible with corneal injury.

Skin Contact: Irritation with reddening and itching. Absorption of harmful amounts possible.

Ingestion: Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or "zinc shakes", an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

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Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.

Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A	Odor: odorless
Solubility in water: trace	Specific Gravity (water=1): N/A
Vapor Pressure (mmHg): N/A	Evaporation rate: None
Vapor Density (air=1): N/A	% Volatile by volume: None
Appearance: blue powder	

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A	Flammable Limits: None
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Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

********Attention All Retailers of Mason Stains********

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6373, 6393

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Turquoise Blue Stains 6373, 6393
Chemical Abstract Number (CAS): 68186-95-8,18282-10-5,68187-49-5,10101-52-7
Chemical Name: Cobalt Chrome Zirconium Vanadium Glue
Chemical Formula: (Zr,V)SiO₄ + CoCr₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Tin Oxide (SnO)	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
Cas # 21651-19-4			

Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Vanadium Oxide (VO₃)	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
Cas # 1314-62-1			

Symptoms of overexposure:

Inhalation: Irritation of the respiratory tract, chest tightness, wheezing, coughing.

Eye Contact: Irritation possible with corneal injury.

Skin Contact: Irritation with reddening and itching. Absorption of harmful amounts possible.

Ingestion: Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, tohium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

- Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.
- Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.
- Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

- Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.
- Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.
- Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

- | | |
|----------------------------|---------------------------------|
| Boiling Point: N/A | Odor: odorless |
| Solubility in water: trace | Specific Gravity (water=1): N/A |
| Vapor Pressure (mmHg): N/A | Evaporation rate: None |
| Vapor Density (air=1): N/A | % Volatile by volume: None |
| Appearance: blue powder | |

Section 8: Reactivity Data

- Stability: Stable
- Hazardous Polymerization: will not occur
- Incompatibility: None
- Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

- Flash point: N/A
- Flammable Limits: None
- Unusual Fire and Explosion Hazard: None expected
- Extinguishing Media: Carbon dioxide, dry chemical or water
- Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

- Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
- Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

********Attention All Retailers of Mason Stains********

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (**SARA**) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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PLEASE KEEP ON FILE FOR FUTURE REFERENCE. DO NOT THROW AWAY ! MATERIAL SAFETY DATA SHEETS ARE REQUIRED FOR FIRST SHIPMENT, AND WILL BE SENT AGAIN WHEN REVISED UPON YOUR NEXT ORDER OF PRODUCT OR BY REQUEST.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6385

Section 1: Manufacturer Identification

Mason Color Works, Inc. Phone: (330) 385-4400
 250 East 2nd Street/P.O. Box 76 Fax: (330) 385-4488
 East Liverpool, OH 43920-5076

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Pansy Purple 6385
 Chemical Abstract Number (CAS): 68187-12-2,681876-40-6
 Chemical Name: Chrome Tin Cobalt Purple
 Chemical Formula: CaO, SnO SiO₂ : Cr₂O₃

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening do to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) associated with increased incidence of Scroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Tin Oxide (SnO)	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
Cas # 21651-19-4			

Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A
Solubility in water: trace
Vapor Pressure (mmHg): N/A
Vapor Density (air=1): N/A
Appearance: purple powder

Odor: odorless
Specific Gravity (water=1): N/A
Evaporation rate: None
% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

****SARA 313*

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (**SARA**) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CRF, Part 372.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6386

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Navy Blue 6386
Chemical Abstract Number (CAS): 68412-74-8,68186-97-0
Chemical Name: Cobalt Zinc Silicate – Phenacite + Iron Cobalt Chromite - Spinel
Chemical Formula: (Co,Zn)₂ O₄ + (Co,Fe) Cr₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.			

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologic studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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Iron Oxide cont'd

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Siderosis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Nickel Oxide (NiO) Cas # 7440-02-0	0.2 mg/m ³	1 mg/m ³	0.015 mg/m ³
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ACGIH: Inhalable fraction, the concentration of inhalable particulate for application of this TLV is to be determined from the fraction passing a size-selector with characteristics defined in (A1). (A1) – Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence, in exposed humans. (Ca) Carcinogen.

Symptoms of overexposure:

Inhalation: Primary enters through inhalation of dust.

Eye Contact: May cause irritation in eyes and mucous membranes.

Skin Contact: May irritate skin, can cause “Nickel Itch” in sensitive persons.

Ingestion: Low order of acute toxicity. May cause gastro-intestinal disorders.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Symptoms of overexposure:

Inhalation:

- Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Scleroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Zinc Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³	10 mg/m ³ (Total) 5 mg/m ³ (Respirable)	5 mg/m ³
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Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or “zinc shakes”, an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Zinc Oxide cont'd

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: blue powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6392

Section 1: Manufacturer Identification

Mason Color Works, Inc. Phone: (330) 385-4400
 250 East 2nd Street/P.O. Box 76 Fax: (330) 385-4488
 East Liverpool, OH 43920-5076

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Dusty Lavender 6392
 Chemical Abstract Number (CAS): 68187-12-2,68186-95-8,10101-52-7
 Chemical Name: Chrome Tin Zirconium Vanadium Lavender
 Chemical Formula: CaOSnOSiO₂Cr₂O₃ (Zr,V)

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening do to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
Silica, Crystalline (SiO₂) Cas # 14808-60-7		SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

a) associated with increased incidence of Sceroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.

b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)

c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.

d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Tin Oxide (SnO) Cas # 21651-19-4	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
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Tin Oxide cont'd

Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Vanadium Oxide (VO₃)	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
Cas # 1314-62-1			

Symptoms of overexposure:

Inhalation: Irritation of the respiratory tract, chest tightness, wheezing, coughing.

Eye Contact: Irritation possible with corneal injury.

Skin Contact: Irritation with reddening and itching. Absorption of harmful amounts possible.

Ingestion: Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, tohium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A
Solubility in water: trace
Vapor Pressure (mmHg): N/A
Vapor Density (air=1): N/A
Appearance: purple powder

Odor: odorless
Specific Gravity (water=1): N/A
Evaporation rate: None
% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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***SARA 313

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Last issued: 11/97
Updated : 3/2000

Product Number: 6396

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Peacock Blue 6396
Chemical Abstract Number (CAS): 68186-95-8,10101-52-7,68187-49-5
Chemical Name: Cobalt Chrome Zirconium Vanadium Blue
Chemical Formula: (Zr,V) SiO₄ + CoCr₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Chrome Oxide (Cr₂O₃) Cas # 1313-13-2`	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening de to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Cobalt Oxide cont'd

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
		SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Sceroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Vanadium Oxide (VO₃) Cas # 1314-62-1	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
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Symptoms of overexposure:

Inhalation: Irritation of the respiratory tract, chest tightness, wheezing, coughing.

Eye Contact: Irritation possible with corneal injury.

Skin Contact: Irritation with reddening and itching. Absorption of harmful amounts possible.

Ingestion: Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

Zirconium Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³ (total) 5 mg/m ³ (respirable)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	5 mg/m ³ 15 min. C
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Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, tohium and radium may cause lung cancer.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

- Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.
- Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.
- Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

- Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.
- Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.
- Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

- | | |
|----------------------------|---------------------------------|
| Boiling Point: N/A | Odor: odorless |
| Solubility in water: trace | Specific Gravity (water=1): N/A |
| Vapor Pressure (mmHg): N/A | Evaporation rate: None |
| Vapor Density (air=1): N/A | % Volatile by volume: None |
| Appearance: blue powder | |

Section 8: Reactivity Data

- Stability: Stable
- Hazardous Polymerization: will not occur
- Incompatibility: None
- Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

- Flash point: N/A
- Flammable Limits: None
- Unusual Fire and Explosion Hazard: None expected
- Extinguishing Media: Carbon dioxide, dry chemical or water
- Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

- Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
- Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

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*****SARA 313**

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Last issued: 11/97

Updated : 3/2000

Product Number: 6404

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Vanadium Yellow 6404
Chemical Abstract Number (CAS): 68186-93-6
Chemical Name: Tin Vanadium Yellow - Cassierite
Chemical Formula: (Sn,V)O₂

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Tin Oxide (SnO) Cas # 21651-19-4	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
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Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Vanadium Oxide (VO₃) Cas # 1314-62-1	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
-----------------------------------------------------------	------------------------	------------------------	------------------------

Symptoms of overexposure:

Inhalation: Irritation of the respiratory tract, chest tightness, wheezing, coughing.

Eye Contact: Irritation possible with corneal injury.

Skin Contact: Irritation with reddening and itching. Absorption of harmful amounts possible.

Ingestion: Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: yellow powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6405,6406,6407

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Naples 6405, Buttercup 6406, Marigold 6407
 Chemical Abstract Number (CAS): 68187-15-5, 68187-13-3, 10101-52-7
 Chemical Name: Iron Zirconium Praseodymium Yellow - Zircon
 Chemical Formula: (Zr,Fe,Pr)SiO₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
		----- SiO ₂ + 2	

Symptoms of overexposure:

Inhalation:

- a) associated with increased incidence of Sceroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

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Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: yellow powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6433,6450

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Praseodymium Yellow 6433, Praseodymium Yellow 6450
 Chemical Abstract Number (CAS): 68187-15-5
 Chemical Name: Zirconium Praseodymium Yellow - Zircon
 Chemical Formula: (Zr,Pr)SiO₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

- Inhalation:** Acute inhalation to respirable dust which contains radioactive uranium, thium and radium may cause lung cancer.
- Eye Contact:** May cause irritation with discomfort, tearing or blurring of vision.
- Skin Contact:** Not applicable.

Silica, Crystalline (SiO₂)	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
Cas # 14808-60-7		<u>SiO₂ + 2</u>	

Symptoms of overexposure:

- Inhalation:**
 - a) associated with increased incidence of Sceroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
 - b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
 - c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.
 - d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)
- Eye Contact:** May cause abrasions of the cornea.
- Skin Contact:** Not applicable.
- Ingestion:** Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

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Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: yellow powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6434

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Yellow 6434
Chemical Abstract Number (CAS): 12036-19-3
Chemical Name: Zinc Ferrite Yellow - Spinel
Chemical Formula: Fe₂O₄Zn

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.
Eye Contact: May cause irritation.
Skin Contact: May cause mechanical skin irritation.
Ingestion: Expected to be non-toxic.

Titanium Dioxide (TiO₂) Cas # 13463-67-7	10 mg/m ³	10 mg/m ³ (total)	0.2 mg/m ³ 5 mg/m ³ (respirable)
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Symptoms of overexposure:

Inhalation: Inhalation of dust can cause irritation of the nose, throat, and lungs.
Eye Contact: Like any foreign body, particles can cause mechanical irritation.
Skin Contact: This material can cause irritation if not promptly washed form skin.
Ingestion: This material is not expected to produce adverse effects.

Zinc Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³	10 mg/m ³ (Total) 5 mg/m ³ (Respirable)	5 mg/m ³
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Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or "zinc shakes", an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.
Eye Contact: May cause irritation.
Skin Contact: May cause irritation.
Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: yellow powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

******SARA 313***

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6440

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Vanadium Yellow 6440
Chemical Abstract Number (CAS): 68186-93-6
Chemical Name: Tin Vanadium Yellow - Cassierite
Chemical Formula: (Sn,V) O₂

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Tin Oxide (SnO) Cas # 21651-19-4	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
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Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Titanium Dioxide (TiO₂) Cas # 13463-67-7	10 mg/m ³	10 mg/m ³ (total)	0.2 mg/m ³ 5 mg/m ³ (respirable)
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Symptoms of overexposure:

Inhalation: Inhalation of dust can cause irritation of the nose, throat, and lungs.

Eye Contact: Like any foreign body, particles can cause mechanical irritation.

Skin Contact: This material can cause irritation if not promptly washed form skin.

Ingestion: This material is not expected to produce adverse effects.

Vanadium Oxide (VO₃) Cas # 1314-62-1	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
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Vanadium Oxide cont'd

Symptoms of overexposure:

Inhalation: Irritation of the respiratory tract, chest tightness, wheezing, coughing.

Eye Contact: Irritation possible with corneal injury.

Skin Contact: Irritation with reddening and itching. Absorption of harmful amounts possible.

Ingestion: Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: yellow powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6464

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Zirconium Yellow 6464
Chemical Abstract Number (CAS): 68187-01-9
Chemical Name: Zirconium Vanadium Yellow - Baddeleyite
Chemical Formula: (Z,V)O₂

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Titanium Dioxide (TiO₂) Cas # 13463-67-7	10 mg/m ³	10 mg/m ³ (total)	0.2 mg/m ³ 5 mg/m ³ (respirable)

Symptoms of overexposure:

Inhalation: Inhalation of dust can cause irritation of the nose, throat, and lungs.

Eye Contact: Like any foreign body, particles can cause mechanical irritation.

Skin Contact: This material can cause irritation if not promptly washed from skin.

Ingestion: This material is not expected to produce adverse effects.

Vanadium Oxide (VO₃) Cas # 1314-62-1	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
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Symptoms of overexposure:

Inhalation: Irritation of the respiratory tract, chest tightness, wheezing, coughing.

Eye Contact: Irritation possible with corneal injury.

Skin Contact: Irritation with reddening and itching. Absorption of harmful amounts possible.

Ingestion: Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

Zirconium Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³ (total) 5 mg/m ³ (respirable)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	5 mg/m ³ 15 min. C
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Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: yellow powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6471

Section 1: Manufacturer Identification

Mason Color Works, Inc. Phone: (330) 385-4400
 250 East 2nd Street/P.O. Box 76 Fax: (330) 385-4488
 East Liverpool, OH 43920-5076

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Old Gold 6471
 Chemical Abstract Number (CAS): 68186-93-6,68186-88-9,68186-95-8
 Chemical Name: Chrome Iron Zinc Tin Vanadium Yellow
 Chemical Formula: (Zr,V)SiO₄ + (Sn,V)O₂ + (Zn,Fe)(Fe,Cr)₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening do to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Cobalt Oxide cont'd

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.**Eye Contact:** May cause serious eye irritation.**Skin Contact:** Prolonged exposure may produce irritation.**Ingestion:** Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Iron Oxide (Fe₂O₃)	5 mg/m ³	10 mg/m ³	5 mg/m ³
Cas # 1309-37-1			

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.**Eye Contact:** May cause irritation.**Skin Contact:** May cause mechanical skin irritation.**Ingestion:** Expected to be non-toxic.

Silica, Crystalline (SiO₂)	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
Cas # 14808-60-7		$\frac{\text{SiO}_2 + 2}{\text{SiO}_2 + 2}$	

Symptoms of overexposure:

Inhalation:

- associated with increased incidence of Sceroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.
- There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.**Skin Contact:** Not applicable.**Ingestion:** Not applicable.

Tin Oxide (SnO)	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
Cas # 21651-19-4			

Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.**Eye Contact:** Abrasive, mild irritant**Skin Contact:** Possible irritant.**Ingestion:** Considered non-toxic.

Vanadium Oxide (VO₃)	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
Cas # 1314-62-1			

Vanadium Oxide cont'd

Symptoms of overexposure:

Inhalation: Irritation of the respiratory tract, chest tightness, wheezing, coughing.

Eye Contact: Irritation possible with corneal injury.

Skin Contact: Irritation with reddening and itching. Absorption of harmful amounts possible.

Ingestion: Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

Zinc Oxide (ZnO)	10 mg/m ³	10 mg/m ³ (Total)	5 mg/m ³
Cas # 1314-13-2		5 mg/m ³ (Respirable)	

Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or “zinc shakes”, an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, tohium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A
Solubility in water: trace
Vapor Pressure (mmHg): N/A
Vapor Density (air=1): N/A
Appearance: yellow powder

Odor: odorless
Specific Gravity (water=1): N/A
Evaporation rate: None
% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6485

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Titanium Yellow 6485
Chemical Abstract Number (CAS): 68186-90-3
Chemical Name: Chrome Antimony Titanium Yellow
Chemical Formula: (Ti,Cr,Sb)₂O₂

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Antimony Trioxide (Sb₂O₃) Cas # 1309-64-4	0.5 mg/m ³	0.05 mg/m ³	0.05 mg/m ³

Symptoms of overexposure:

Inhalation: Prolonged excessive absorption in sufficient quantities may produce gastrointestinal Upset, nervous complaints, inflammation of mucus membrane of the nose and throat, metallic Taste and Stomatitis.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: Prolonged ingestion may cause gastrointestinal upset.

Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening do to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Titanium Dioxide (TiO₂) Cas # 13463-67-7	10 mg/m ³	10 mg/m ³ (total)	0.2 mg/m ³ 5 mg/m ³ (respirable)
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Symptoms of overexposure:

Inhalation: Inhalation of dust can cause irritation of the nose, throat, and lungs.

Eye Contact: Like any foreign body, particles can cause mechanical irritation.

Skin Contact: This material can cause irritation if not promptly washed form skin.

Ingestion: This material is not expected to produce adverse effects.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: yellow powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

******SARA 313***

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6500

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Sage Grey 6500
Chemical Abstract Number (CAS): 68186-89-0
Chemical Name: Cobalt Nickel Grey - Periclase
Chemical Formula: (Co,Ni) O

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃)	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
Cas # 1313-13-2			
ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.			

Symptoms of overexposure:

- Inhalation:** Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.
- Eye Contact:** mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.
- Skin Contact:** Expected to be non irritating.
- Ingestion:** Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co₃O₄)	0.02 mg/m ³	0.5 mg/m ³	N/A
Cas # 1396-06-1			
ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiology studies do not confirm an increased risk of cancer in humans except under common levels of exposure.			

Symptoms of Overexposure:

- Inhalation:** Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.
- Eye Contact:** May cause serious eye irritation.
- Skin Contact:** Prolonged exposure may produce irritation.
- Ingestion:** Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Nickel Oxide (NiO)	0.2 mg/m ³	1 mg/m ³	0.015 mg/m ³
Cas # 7440-02-0			

Nickel Oxide cont'd

ACGIH: Inhalable fraction, the concentration of inhalable particulate for application of this TLV is to be determined from the fraction passing a size-selector with characteristics defined in (A1). (A1) – Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence, in exposed humans. (Ca) Carcinogen.

Symptoms of overexposure:

Inhalation: Primary enters through inhalation of dust.

Eye Contact: May cause irritation in eyes and mucous membranes.

Skin Contact: May irritate skin, can cause “Nickel Itch” in sensitive persons.

Ingestion: Low order of acute toxicity. May cause gastro-intestinal disorders.

Silica, Crystalline (SiO₂) 0.1 mg/m³ 10 mg/m³ 0.05 mg/m³
Cas # 14808-60-7

SiO₂ + 2

Symptoms of overexposure:

Inhalation:

- associated with increased incidence of Scroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.
- There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A	Odor: odorless
Solubility in water: trace	Specific Gravity (water=1): N/A
Vapor Pressure (mmHg): N/A	Evaporation rate: None
Vapor Density (air=1): N/A	% Volatile by volume: None
Appearance: gray powder	

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A	Flammable Limits: None
Unusual Fire and Explosion Hazard: None expected	
Extinguishing Media: Carbon dioxide, dry chemical or water	
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.	

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

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******SARA 313***

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CRF, Part 372.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6503,6527,6537

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Taupe 6503, Shadow 6527, Mouse 6537
Chemical Abstract Number (CAS): 10101-52-7,68187-09-7
Chemical Name: Iron Chromite-Spinel
Chemical Formula: Fe(Fe,Cr)₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Silicosis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) associated with increased incidence of Sceroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, tohium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A
Solubility in water: trace
Vapor Pressure (mmHg): N/A
Vapor Density (air=1): N/A
Appearance: gray powder

Odor: odorless
Specific Gravity (water=1): N/A
Evaporation rate: None
% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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******SARA 313***

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Last issued: 11/97
Updated : 3/2000

Product Number: 6506, 6528, 6530, 6531, 6540

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Pearl 6506, Charcoal 6528, Silver 6530, Slate 6531, Blue Grey 6540
Chemical Abstract Number (CAS): 68186-97-0, 18282-10-5
Chemical Name: Iron Cobalt Chromite Grey - Spinel
Chemical Formula: (Co,Fe)(Fe,Cr)₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating, non-toxic if swallowed.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologic studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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Iron Oxide cont'd

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.
- Eye Contact:** May cause irritation.
- Skin Contact:** May cause mechanical skin irritation.
- Ingestion:** Expected to be non-toxic.

Nickel Oxide (NiO)	0.2 mg/m ³	1 mg/m ³	0.015 mg/m ³
Cas # 7440-02-0			

ACGIH: Inhalable fraction, the concentration of inhalable particulate for application of this TLV is to be determined from the fraction passing a size-selector with characteristics defined in (A1). (A1) – Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence, in exposed humans. (Ca) Carcinogen.

Symptoms of overexposure:

- Inhalation:** Primary enters through inhalation of dust.
- Eye Contact:** May cause irritation in eyes and mucous membranes.
- Skin Contact:** May irritate skin, can cause “Nickel Itch” in sensitive persons.
- Ingestion:** Low order of acute toxicity. May cause gastro-intestinal disorders.

Tin Oxide (SnO)	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
Cas # 21651-19-4			

Symptoms of overexposure:

- Inhalation:** No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.
- Eye Contact:** Abrasive, mild irritant
- Skin Contact:** Possible irritant.
- Ingestion:** Considered non-toxic.

Section 5: Emergency and First Aid Procedures:

- Eye: flush thoroughly with water for 15 minutes.
- Skin: remove contaminated clothing, wash thoroughly with soap and water.
- Inhalation: remove to fresh air, may give oxygen if needed.
- Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

- Inhalation:** Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.
- Ingestion:** Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.
- Skin & Eye:** Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A	Odor: oderless
Solubility in water: trace	Specific Gravity (water=1): N/A
Vapor Pressure (mmHg): N/A	Evaporation rate: None
Vapor Density (air=1): N/A	% Volatile by volume: None
Appearance: grey powder	

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A	Flammable Limits: None
Unusual Fire and Explosion Hazard: None expected	
Extinguishing Media: Carbon dioxide, dry chemical or water	
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.	

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vaccum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6515

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Soft Medium Grey 6515
Chemical Abstract Number (CAS): 10101-52-7,68555-06-6
Chemical Name: Iron Chromite - Spinel
Chemical Formula: Fe(Fe,Cr)₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Silicosis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) associated with increased incidence of Sceroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, tohium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A	Odor: odorless
Solubility in water: trace	Specific Gravity (water=1): N/A
Vapor Pressure (mmHg): N/A	Evaporation rate: None
Vapor Density (air=1): N/A	% Volatile by volume: None
Appearance: grey powder	

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A	Flammable Limits: None
Unusual Fire and Explosion Hazard: None expected	
Extinguishing Media: Carbon dioxide, dry chemical or water	
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.	

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (**SARA**) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

The information contained in this Material Safety Data Sheet must be provided to every employee who is exposed to this product in any way. We recommend the user reads and understands the contents herein before using this material.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6523

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Soft Green Grey 6523
Chemical Abstract Number (CAS): 10101-52-7,68186-97-0
Chemical Name: Iron Cobalt Chromite - Spinel
Chemical Formula: (Co,Fe)(Fe,Cr)₂O₄ + Al₂O₃ZrO₂SiO₂

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.
- Eye Contact:** Direct contact may cause irritation.
- Skin Contact:** May cause abrasions.
- Ingestion:** May cause irritation.

Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

- Inhalation:** Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.
- Eye Contact:** mechanical irritation to the eye may occur such as watering, reddening de to exposure to fines.
- Skin Contact:** Expected to be non irritating.
- Ingestion:** Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Cobalt Oxide cont'd

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.**Eye Contact:** May cause serious eye irritation.**Skin Contact:** Prolonged exposure may produce irritation.**Ingestion:** Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Iron Oxide (Fe₂O₃)	5 mg/m ³	10 mg/m ³	5 mg/m ³
Cas # 1309-37-1			

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.**Eye Contact:** May cause irritation.**Skin Contact:** May cause mechanical skin irritation.**Ingestion:** Expected to be non-toxic.

Manganese Compound (Mn)	0.2 mg/m ³	5 mg/m ³	1.0 mg/m ³
Cas # 7349-96-5			3.0 mg/m ³

Symptoms of overexposure:

Inhalation: Elemental Manganese fume and dust, when in high concentrations, may adversely affect the central nervous system with symptoms including langour, sleepiness, weakness, emotional disturbances, spastic gait, mash-like facial expressions and paralysis.**Eye Contact:** May cause irritation, if persists call doctor.**Skin Contact:** May cause abrasions.**Ingestion:** In high concentrations if swallowed may cause systemic poisoning.

Silica, Crystalline (SiO₂)	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
Cas # 14808-60-7			

SiO₂ + 2

Symptoms of overexposure:

Inhalation:

a) associated with increased incidence of Sceroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.

b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)

c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.

d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.**Skin Contact:** Not applicable.**Ingestion:** Not applicable.

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Zirconium Oxide cont'd

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Odor: odorless

Solubility in water: trace

Specific Gravity (water=1): N/A

Vapor Pressure (mmHg): N/A

Evaporation rate: None

Vapor Density (air=1): N/A

% Volatile by volume: None

Appearance: grey powder

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

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*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CRF, Part 372.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6527

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Shadow Grey 6527
Chemical Abstract Number (CAS): 68187-12-2,10101-52-7,68187-09-7
Chemical Name: Iron Chromite Cr Sn Grey
Chemical Formula: Fe(Fe,Cr)₂ O₄ + CaO SnO AiO₂ Cr₂O₃

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

- Inhalation:** Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.
- Eye Contact:** mechanical irritation to the eye may occur such as watering, reddening de to exposure to fines.
- Skin Contact:** Expected to be non irritating.
- Ingestion:** Considered to be non-irritating , non-toxic if swallowed.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.
- Eye Contact:** May cause irritation.
- Skin Contact:** May cause mechanical skin irritation.
- Ingestion:** Expected to be non-toxic.

Zirconium Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³ (total) 5 mg/m ³ (respirable)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	5 mg/m ³ 15 min. C
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Zirconium Oxide cont'd

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: grey powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6572

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Neutral Grey 6572
Chemical Abstract Number (CAS): 14940-68-2,68187-09-7
Chemical Name: Iron Chromite - Spinel
Chemical Formula: Fe(Fe,Cr)₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃)	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

Cas # 1313-13-2

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Iron Oxide (Fe₂O₃)	5 mg/m ³	10 mg/m ³	5 mg/m ³
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Cas # 1309-37-1

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Silicosis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Zirconium Oxide (ZnO)	10 mg/m ³ (total) 5 mg/m ³ (respirable)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	5 mg/m ³ 15 min. C
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Cas # 1314-13-2

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: grey powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

******SARA 313***

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Last issued: 11/97
Updated : 3/2000

Product Number: 6573

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Rose Taupe 6573
 Chemical Abstract Number (CAS): 68187-01-9,68187-12-2,14940-68-2,68187-09-7
 Chemical Name: Iron Chromite Sn Grey
 Chemical Formula: (Fe,Cr)₂ O₄ + CaO.SnO SiO₂ Cr₂O₃

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening do to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) associated with increased incidence of Scroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Tin Oxide (SnO)	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
Cas # 21651-19-4			

Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, tohium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A	Odor: oderless
Solubility in water: trace	Specific Gravity (water=1): N/A
Vapor Pressure (mmHg): N/A	Evaporation rate: None
Vapor Density (air=1): N/A	% Volatile by volume: None
Appearance: grey powder	

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A	Flammable Limits: None
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Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vaccum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

********Attention All Retailers of Mason Stains********

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

******SARA 313***

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CRF, Part 372.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6591

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Gun-Metal Grey 6591
Chemical Abstract Number (CAS): 68186-89-0
Chemical Name: Cobalt Nickel Grey - Periclase
Chemical Formula: (Co,Ni) O

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A

ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologic studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

- Inhalation:** Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.
- Eye Contact:** May cause serious eye irritation.
- Skin Contact:** Prolonged exposure may produce irritation.
- Ingestion:** Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Nickel Oxide (NiO) Cas # 7440-02-0	0.2 mg/m ³	1 mg/m ³	0.015 mg/m ³
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ACGIH: Inhalable fraction, the concentration of inhalable particulate for application of this TLV is to be determined from the fraction passing a size-selector with characteristics defined in (A1). (A1) – Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence, in exposed humans. (Ca) Carcinogen.

Symptoms of overexposure:

- Inhalation:** Primary enters through inhalation of dust.
- Eye Contact:** May cause irritation in eyes and mucous membranes.
- Skin Contact:** May irritate skin, can cause “Nickel Itch” in sensitive persons.
- Ingestion:** Low order of acute toxicity. May cause gastro-intestinal disorders.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
		----- SiO ₂ + 2	

Silica, Crystalline cont'd

Symptoms of overexposure:

Inhalation:

- a) associated with increased incidence of Sceroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.
- d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Zirconium Oxide (ZnO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-13-2	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)	15 min. C

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, tohium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A	Odor: odorless
Solubility in water: trace	Specific Gravity (water=1): N/A
Vapor Pressure (mmHg): N/A	Evaporation rate: None
Vapor Density (air=1): N/A	% Volatile by volume: None
Appearance: grey powder	

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A	Flammable Limits: None
Unusual Fire and Explosion Hazard: None expected	
Extinguishing Media: Carbon dioxide, dry chemical or water	
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.	

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

********Attention All Retailers of Mason Stains********

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******SARA 313***

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CRF, Part 372.

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Last issued: 11/97
Updated : 3/2000

Product Number: 6600

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Black 6600
Chemical Abstract Number (CAS): 67186-97-0
Chemical Name: Cobalt Chromite Black - Spinel
Chemical Formula: (Co,Fe) (Fe,Cr)₂ O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening do to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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Iron Oxide cont'd

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Nickel Oxide (NiO)	0.2 mg/m ³	1 mg/m ³	0.015 mg/m ³
Cas # 7440-02-0			

ACGIH: Inhalable fraction, the concentration of inhalable particulate for application of this TLV is to be determined from the fraction passing a size-selector with characteristics defined in (A1). (A1) – Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence, in exposed humans. (Ca) Carcinogen.

Symptoms of overexposure:

Inhalation: Primary enters through inhalation of dust.

Eye Contact: May cause irritation in eyes and mucous membranes.

Skin Contact: May irritate skin, can cause “Nickel Itch” in sensitive persons.

Ingestion: Low order of acute toxicity. May cause gastro-intestinal disorders.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A
Solubility in water: trace
Vapor Pressure (mmHg): N/A
Vapor Density (air=1): N/A
Appearance: black powder

Odor: odorless
Specific Gravity (water=1): N/A
Evaporation rate: None
% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable
Hazardous Polymerization: will not occur
Incompatibility: None
Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A
Unusual Fire and Explosion Hazard: None expected
Extinguishing Media: Carbon dioxide, dry chemical or water
Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Flammable Limits: None

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.
Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6601

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Velvet Black 6601
Chemical Abstract Number (CAS): 68186-97-0,68412-74-8
Chemical Name: Iron Cobalt Chromite Black - Spinel
Chemical Formula: (Co,Fe) (Fe,Cr)₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening do to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Cobalt Oxide cont'd

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Nickel Oxide (NiO) Cas # 7440-02-0	0.2 mg/m ³	1 mg/m ³	0.015 mg/m ³
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ACGIH: Inhalable fraction, the concentration of inhalable particulate for application of this TLV is to be determined from the fraction passing a size-selector with characteristics defined in (A1). (A1) – Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence, in exposed humans. (Ca) Carcinogen.

Symptoms of overexposure:

Inhalation: Primary enters through inhalation of dust.

Eye Contact: May cause irritation in eyes and mucous membranes.

Skin Contact: May irritate skin, can cause “Nickel Itch” in sensitive persons.

Ingestion: Low order of acute toxicity. May cause gastro-intestinal disorders.

Zinc Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³	10 mg/m ³ (Total) 5 mg/m ³ (Respirable)	5 mg/m ³
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Symptoms of overexposure:

Inhalation: High levels of dust may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Chronic exposure may produce symptoms known as metal fume fever or “zinc shakes”, an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. May aggravate respiratory conditions.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause irritation to the gastro-intestinal tract.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A	Odor: oderless
Solubility in water: trace	Specific Gravity (water=1): N/A
Vapor Pressure (mmHg): N/A	Evaporation rate: None
Vapor Density (air=1): N/A	% Volatile by volume: None
Appearance: black powder	

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vaccum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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******SARA 313***

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Last issued: 11/97

Updated : 3/2000

Product Number: 6609

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Black 6609
Chemical Abstract Number (CAS): 68186-97-0
Chemical Name: Iron Cobalt Chromite Black - Spinel
Chemical Formula: (Co,Fe)(Fe,Cr)₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening do to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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Iron Oxide cont'd

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Manganese Compound (Mn)	0.2 mg/m ³	5 mg/m ³	1.0 mg/m ³
Cas # 7349-96-5			3.0 mg/m ³

Symptoms of overexposure:

Inhalation: Elemental Manganese fume and dust, when in high concentrations, may adversely affect the central nervous system with symptoms including langour, sleepiness, weakness, emotional disturbances, spastic gait, mash-like facial expressions and paralysis.

Eye Contact: May cause irritation, if persists call doctor.

Skin Contact: May cause abrasions.

Ingestion: In high concentrations if swallowed may cause systemic poisoning.

Nickel Oxide (NiO)	0.2 mg/m ³	1 mg/m ³	0.015 mg/m ³
Cas # 7440-02-0			

ACGIH: Inhalable fraction, the concentration of inhalable particulate for application of this TLV is to be determined from the fraction passing a size-selector with characteristics defined in (A1). (A1) – Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence, in exposed humans. (Ca) Carcinogen.

Symptoms of overexposure:

Inhalation: Primary enters through inhalation of dust.

Eye Contact: May cause irritation in eyes and mucous membranes.

Skin Contact: May irritate skin, can cause “Nickel Itch” in sensitive persons.

Ingestion: Low order of acute toxicity. May cause gastro-intestinal disorders.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A	Odor: oderless
Solubility in water: trace	Specific Gravity (water=1): N/A
Vapor Pressure (mmHg): N/A	Evaporation rate: None
Vapor Density (air=1): N/A	% Volatile by volume: None
Appearance: black powder	

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A	Flammable Limits: None
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Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vaccum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

********Attention All Retailers of Mason Stains********

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

******SARA 313***

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CRF, Part 372.

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Last issued: 11/97

Updated : 3/2000

Product Number: 6612

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Onyx 6612
Chemical Abstract Number (CAS): 68186-97-0
Chemical Name: Iron Chromite - Spinel
Chemical Formula: (Co,Fe)

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A

ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologic studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Siderosis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: black powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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******SARA 313***

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Last issued: 11/97
Updated : 3/2000

Product Number: 6616

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Chrome-free Black 6616
Chemical Abstract Number (CAS): Iron Cobalt Black - Spinel
Chemical Name: Iron Cobalt Black - Spinel
Chemical Formula: (Fe,Co)Fe₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A

ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

- Inhalation:** Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.
- Eye Contact:** May cause serious eye irritation.
- Skin Contact:** Prolonged exposure may produce irritation.
- Ingestion:** Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

- Inhalation:** Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.
- Eye Contact:** May cause irritation.
- Skin Contact:** May cause mechanical skin irritation.
- Ingestion:** Expected to be non-toxic.

Manganese Compound (Mn) Cas # 7349-96-5	0.2 mg/m ³	5 mg/m ³	1.0 mg/m ³ 3.0 mg/m ³
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Manganese Compound cont'd

Symptoms of overexposure:

Inhalation: Elemental Manganese fume and dust, when in high concentrations, may adversely affect the central nervous system with symptoms including languor, sleepiness, weakness, emotional disturbances, spastic gait, mask-like facial expressions and paralysis.

Eye Contact: May cause irritation, if persists call doctor.

Skin Contact: May cause abrasions.

Ingestion: In high concentrations if swallowed may cause systemic poisoning.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: black powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

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*****SARA 313**

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Last issued: 11/97

Updated : 3/2000

Product Number: 6650

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Cobalt-free Black 6650
Chemical Abstract Number (CAS): 68187-09-7
Chemical Name: Iron Chromite - Spinel
Chemical Formula: Fe(Fe,Cr)₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening do to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: black powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

*******Attention All Retailers of Mason Stains*******

*ALL retailers of this product are **REQUIRED** by law to supply their customers with a copy of this material safety data sheet with initial purchase.*

*****SARA 313**

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Last issued: 11/97
Updated : 3/2000

Product Number: 6657

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: Black 6657
Chemical Abstract Number (CAS): 68186-97-0
Chemical Name: Iron Cobalt Chromite Black - Spinel
Chemical Formula: (Co,Fe) (Fe,Cr)₂O₄

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chrome Oxide (Cr₂O₃) Cas # 1313-13-2	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

Eye Contact: mechanical irritation to the eye may occur such as watering, reddening do to exposure to fines.

Skin Contact: Expected to be non irritating.

Ingestion: Considered to be non-irritating , non-toxic if swallowed.

Cobalt Oxide (Co₃O₄) Cas # 1396-06-1	0.02 mg/m ³	0.5 mg/m ³	N/A
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ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route (s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

Symptoms of Overexposure:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Iron Oxide (Fe₂O₃) Cas # 1309-37-1	5 mg/m ³	10 mg/m ³	5 mg/m ³
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Iron Oxide cont'd

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Siderosis.

Eye Contact: May cause irritation.

Skin Contact: May cause mechanical skin irritation.

Ingestion: Expected to be non-toxic.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

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Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: black powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal.

Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

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*****SARA 313**

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Last issued: 11/97

Updated : 3/2000

Product Number: 6700

Section 1: Manufacturer Identification

Mason Color Works, Inc.
250 East 2nd Street/P.O. Box 76
East Liverpool, OH 43920-5076

Phone: (330) 385-4400
Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
Product Names: White 6700
Chemical Abstract Number (CAS): 10101-52-7
Chemical Name: Zirconium Alumina Silicate
Chemical Formula: Al₂O₃ZrO₂SiO₂

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Symptoms of overexposure:

Inhalation:

- associated with increased incidence of Sceroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.
- There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Zirconium Oxide (ZnO) Cas # 1314-13-2	10 mg/m ³ (total) 5 mg/m ³ (respirable)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	5 mg/m ³ 15 min. C
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Zirconium Oxide cont'd

Symptoms of overexposure:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

Eye Contact: May cause irritation with discomfort, tearing or blurring of vision.

Skin Contact: Not applicable.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

IF THESE FIRST AID MEASURES FAIL, CONSULT PHYSICIAN!!!!!!!!!!!!!!!!!!!!!!

Principal Routes of Entry:

Inhalation: Dust from this product may cause irritation of the respiratory system.
Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

Section 6: Special Protection Information

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limits. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: white powder

Odor: odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X are in reference to the finished product.

******Attention All Retailers of Mason Stains******

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of this material safety data sheet with initial purchase.

*****SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

The information contained in this Material Safety Data Sheet must be provided to every employee who is exposed to this product in any way. We recommend the user reads and understands the contents herein before using this material.

PLEASE KEEP ON FILE FOR FUTURE REFERENCE. DO NOT THROW AWAY ! MATERIAL SAFETY DATA SHEETS ARE REQUIRED FOR FIRST SHIPMENT, AND WILL BE SENT AGAIN WHEN REVISED UPON YOUR NEXT ORDER OF PRODUCT OR BY REQUEST.

DISCLAIMER

Mason Color Works, Inc. believes the information contained in this material safety data sheet is believed to be accurate and reliable as of the date of publication or revision but makes no warranty that it is. This information provided should be made available as required by the Federal OSHA Hazard Communication Standard 1910.1200 to ANYONE who handles, uses, stores, transports or will otherwise be exposed to this product. Mason Color Works, Inc. Accepts no Responsibility for the health or safety of any individual who misuses this product by not complying with manufacturer's instructions contained herein or additional /other measures that may be required under particular conditions.

Last issued: 11/97
Updated : 3/2000

Product Number: 6768

Section 1: Manufacturer Identification

Mason Color Works, Inc.
 250 East 2nd Street/P.O. Box 76
 East Liverpool, OH 43920-5076

Phone: (330) 385-4400
 Fax: (330) 385-4488

Section 2: Identification of Product

Chemical Family: Inorganic
 Product Names: Tin White 6768
 Chemical Abstract Number (CAS): 18282-10-5,1344-28-1
 Chemical Name: Tin White
 Chemical Formula: Sn.Al.Si

Section 3 & Section 4: Hazardous ingredients Identity/Information and Overexposure Symptoms

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al ₂ O ₃) Cas # 1344-28-1	10 mg/m ³ (total)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	N/A

ACGIH: The value for particulate matter containing no asbestos and 1% crystalline silica.

Symptoms of overexposure:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin Contact: May cause abrasions.

Ingestion: May cause irritation.

Silica, Crystalline (SiO₂) Cas # 14808-60-7	0.1 mg/m ³	10 mg/m ³ <hr/> SiO ₂ + 2	0.05 mg/m ³
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Symptoms of overexposure:

Inhalation:

a) associated with increased incidence of Sceroderma, an auto-immune disorder manifested by Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.

b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)

c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is fibrosis (scarring) of the skin and internal organs.

d) There are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

Eye Contact: May cause abrasions of the cornea.

Skin Contact: Not applicable.

Ingestion: Not applicable.

Tin Oxide (SnO) Cas # 21651-19-4	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
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Tin Oxide cont'd

Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

Section 5: Emergency and First Aid Procedures:

Eye: flush thoroughly with water for 15 minutes.

Skin: remove contaminated clothing, wash thoroughly with soap and water.

Inhalation: remove to fresh air, may give oxygen if needed.

Ingestion: give large amounts of water to induce vomiting, only in conscious persons.

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Principal Routes of Entry:

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Overexposure may cause lung damage.

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Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

Section 7: Physical and Chemical Characteristics

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance: white powder

Odor: oderless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Section 8: Reactivity Data

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

Section 9: Fire and Explosive Data

Flash point: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazard: None expected

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

Section 10: Spill or Leak Procedures:

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Last issued: 11/97
Updated : 3/2000