
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-1 Clear

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic

kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point - None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-2 Mauve Red
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Talc	14807-96-6	.1	.05	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Talc (non asbestiform)

Fibrotic pneumoconiosis; irritation eyes.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Partition Coefficient - N/A

Explosive Properties - N/A

pH - N/A

Odor and Odor Threshold - N/A

Oxidizing Properties - N/A

Boiling Point - N/A

Melting/Softening Point – None

Solubility in Water - No

Freezing Point - N/A

Vapor Pressure - N/A

Specific Gravity - N/A

Percent Volatile - N/A

Flash Point - N/A

Vapor Density - N/A

Flammable Limits - N/A

Applicable Evaporation Rate - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-3 Purple
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Talc	14807-96-6	.1	.05	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Talc (non asbestiform)

Fibrotic pneumoconiosis; irritation eyes.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Partition Coefficient - N/A

Explosive Properties - N/A

pH - N/A

Odor and Odor Threshold - N/A

Oxidizing Properties - N/A

Boiling Point - N/A

Melting/Softening Point – None

Solubility in Water - No

Freezing Point - N/A

Vapor Pressure - N/A

Specific Gravity - N/A

Percent Volatile - N/A

Flash Point - N/A

Vapor Density - N/A

Flammable Limits - N/A

Applicable Evaporation Rate - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-4 Fool's Gold
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-5 Salmon

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Pigments (Contains Cadmium)	Varies	NA	NA	NA	NA
Cadmium or Cadmium Pigments	7440-43-9	5 ug/m(3)	NA	2330	229.9 4 hour(s)

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.

Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)

inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

Cadmium

The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder	Percent Volatile - N/A
Explosive Properties - N/A	Vapor Density - N/A
Odor and Odor Threshold - N/A	Applicable Evaporation Rate - N/A
Partition Coefficient - N/A	Melting/Softening Point – None
pH - N/A	Freezing Point - N/A
Oxidizing Properties - N/A	Specific Gravity - N/A
Boiling Point - N/A	Flash Point - N/A
Solubility in Water - No	Flammable Limits - N/A
Vapor Pressure - N/A	Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cadmium are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-6 Orange
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Pigments (Contains Cadmium)	Varies	NA	NA	NA	NA
Cadmium or Cadmium Pigments	7440-43-9	5 ug/m(3)	NA	2330	229.9 4 hour(s)

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.

Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)

inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

Cadmium

The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder	Percent Volatile - N/A
Explosive Properties - N/A	Vapor Density - N/A
Odor and Odor Threshold - N/A	Applicable Evaporation Rate - N/A
Partition Coefficient - N/A	Melting/Softening Point – None
pH - N/A	Freezing Point - N/A
Oxidizing Properties - N/A	Specific Gravity - N/A
Boiling Point - N/A	Flash Point - N/A
Solubility in Water - No	Flammable Limits - N/A
Vapor Pressure - N/A	Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cadmium are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-7 Aqua

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-8 Royal Blue

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-9 Teal

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-10 Robin's Egg Blue
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-11 Heavy Rust
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-12 Black

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-13 Citrus Burst
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Pigments (Contains Cadmium)	Varies	NA	NA	NA	NA
Cadmium or Cadmium Pigments	7440-43-9	5 ug/m(3)	NA	2330	229.9 4 hour(s)

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.

Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)

inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

Cadmium

The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder	Percent Volatile - N/A
Explosive Properties - N/A	Vapor Density - N/A
Odor and Odor Threshold - N/A	Applicable Evaporation Rate - N/A
Partition Coefficient - N/A	Melting/Softening Point – None
pH - N/A	Freezing Point - N/A
Oxidizing Properties - N/A	Specific Gravity - N/A
Boiling Point - N/A	Flash Point - N/A
Solubility in Water - No	Flammable Limits - N/A
Vapor Pressure - N/A	Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cadmium are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: BT-14 Dragon's Breath
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Pigments (Contains Cadmium)	Varies	NA	NA	NA	NA
Cadmium or Cadmium Pigments	7440-43-9	5 ug/m(3)	NA	2330	229.9 4 hour(s)

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.

Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)

inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

Cadmium

The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder	Percent Volatile - N/A
Explosive Properties - N/A	Vapor Density - N/A
Odor and Odor Threshold - N/A	Applicable Evaporation Rate - N/A
Partition Coefficient - N/A	Melting/Softening Point – None
pH - N/A	Freezing Point - N/A
Oxidizing Properties - N/A	Specific Gravity - N/A
Boiling Point - N/A	Flash Point - N/A
Solubility in Water - No	Flammable Limits - N/A
Vapor Pressure - N/A	Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cadmium are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G2 Gloss White

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Zirconium	14940-68-2	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Zirconium or Zirconium Compounds

Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Percent Volatile - N/A

Explosive Properties - N/A

Vapor Density - N/A

Odor and Odor Threshold - N/A

Applicable Evaporation Rate - N/A

Partition Coefficient - N/A

Melting/Softening Point - None

pH - N/A

Freezing Point - N/A

Oxidizing Properties - N/A

Specific Gravity - N/A

Boiling Point - N/A

Flash Point - N/A

Solubility in Water - No

Flammable Limits - N/A

Vapor Pressure - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G3 Lemon

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney

disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point - None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G4 Spearmint
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney

disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point - None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G5 Burgundy
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point - None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G6 Midnight Black
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point - None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G7 Grape

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Tin or Tin Compounds	7440-31-5	2	2	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Zirconium or Zirconium Compounds

Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Tin or Tin Compounds

Chronic exposure to Tin Oxide fumes or dust may result in Stannosis, a form of Pneumoconiosis.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G8 Grasshopper
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Nickel or Nickel Compounds	7440-02-0	1	.2	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Zirconium or Zirconium Compounds

Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Nickel or Nickel Compounds

Nickel dust or fume can cause sensitization dermatitis and may cause cancer of the paranasal sinuses and the lungs. Nickel fumes are respiratory irritants and may cause pneumonitis. Skin contact may cause an allergic skin rash. Material causes eye irritation. Avoid contact with eyes, skin and clothing. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G9 Dark Forest

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point - None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G10 Turquoise

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Copper or Copper Compounds	7440-50-8	.1	.2	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Zirconium or Zirconium Compounds

Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Copper or Copper Compounds

Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G11 Sky Blue
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney

disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point - None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G12 Teal

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney

disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point - None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G13 Georgia Peach
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney

disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point - None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G14 Deep Blue Gray Glaze
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Cobalt or Cobalt Compounds	7440-48-4	.01	.02	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.

Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are

some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Zirconium or Zirconium Compounds

Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Cobalt or Cobalt Compounds

Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder	Percent Volatile - N/A
Explosive Properties - N/A	Vapor Density - N/A
Odor and Odor Threshold - N/A	Applicable Evaporation Rate - N/A
Partition Coefficient - N/A pH - N/A	Melting/Softening Point - None Freezing Point - N/A
Oxidizing Properties - N/A	Specific Gravity - N/A
Boiling Point - N/A	Flash Point - N/A
Solubility in Water - No Vapor Pressure - N/A	Flammable Limits - N/A Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G15 It's a Boy!

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney

disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point - None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G16 Hershey Bar Brown
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney

disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point - None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: G17 Red Brown

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point - None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-1 Soft White
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	15	NA	6540	NA
Talc	14807-96-6	.1	.05	NA	NA
Zirconium	14940-68-2	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Talc (non asbestiform)

Fibrotic pneumoconiosis; irritation eyes.

Zirconium or Zirconium Compounds

Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-2 Dark Blue
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	15	NA	6540	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Cobalt or Cobalt Compounds	7440-48-4	.01	.02	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.

Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)

inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zirconium or Zirconium Compounds

Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Cobalt or Cobalt Compounds

Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Partition Coefficient - N/A

Explosive Properties - N/A

pH - N/A

Odor and Odor Threshold - N/A

Oxidizing Properties - N/A

Boiling Point - N/A

Melting/Softening Point - None

Solubility in Water - No

Freezing Point - N/A

Vapor Pressure - N/A

Specific Gravity - N/A

Percent Volatile - N/A

Flash Point - N/A

Vapor Density - N/A

Flammable Limits - N/A

Applicable Evaporation Rate - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-3 Light Blue

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	15	NA	6540	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Cobalt or Cobalt Compounds	7440-48-4	.01	.02	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.

Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)

inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zirconium or Zirconium Compounds

Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Cobalt or Cobalt Compounds

Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Partition Coefficient - N/A

Explosive Properties - N/A

pH - N/A

Odor and Odor Threshold - N/A

Oxidizing Properties - N/A

Boiling Point - N/A

Melting/Softening Point - None

Solubility in Water - No

Freezing Point - N/A

Vapor Pressure - N/A

Specific Gravity - N/A

Percent Volatile - N/A

Flash Point - N/A

Vapor Density - N/A

Flammable Limits - N/A

Applicable Evaporation Rate - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-4 Second Hand Rose
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	15	NA	6540	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zirconium or Zirconium Compounds

Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Partition Coefficient - N/A

Explosive Properties - N/A

pH - N/A

Odor and Odor Threshold - N/A

Oxidizing Properties - N/A

Boiling Point - N/A

Melting/Softening Point - None

Solubility in Water - No

Freezing Point - N/A

Vapor Pressure - N/A

Specific Gravity - N/A

Percent Volatile - N/A

Flash Point - N/A

Vapor Density - N/A

Flammable Limits - N/A

Applicable Evaporation Rate - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-5 Iron Red
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Talc (non-asbestiform)	14807-96-6	20	2	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney

disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Talc (non-asbestiform)

Fibrotic pneumoconiosis; irritation eyes.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Percent Volatile - N/A

Explosive Properties - N/A

Vapor Density - N/A

Odor and Odor Threshold - N/A

Applicable Evaporation Rate - N/A

Partition Coefficient - N/A

Melting/Softening Point – None

pH - N/A

Freezing Point - N/A

Oxidizing Properties - N/A

Specific Gravity - N/A

Boiling Point - N/A

Flash Point - N/A

Solubility in Water - No

Flammable Limits - N/A

Vapor Pressure - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-6 Copperhead
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Talc (non-asbestiform)	14807-96-6	20	2	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney

disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Talc (non-asbestiform)

Fibrotic pneumoconiosis; irritation eyes.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Percent Volatile - N/A

Explosive Properties - N/A

Vapor Density - N/A

Odor and Odor Threshold - N/A

Applicable Evaporation Rate - N/A

Partition Coefficient - N/A

Melting/Softening Point – None

pH - N/A

Freezing Point - N/A

Oxidizing Properties - N/A

Specific Gravity - N/A

Boiling Point - N/A

Flash Point - N/A

Solubility in Water - No

Flammable Limits - N/A

Vapor Pressure - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-7 Gloss White

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	15	NA	6540	NA
Zirconium	14940-68-2	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zirconium or Zirconium Compounds

Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point – None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-11 Light Rust

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Tin Compounds	7440-31-5	2	0	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Zirconium or Zirconium Compounds

Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Tin or Tin Compounds

Chronic exposure to Tin Oxide fumes or dust may result in Stannosis, a form of Pneumoconiosis.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point – None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-12 Metallic Green
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	15	NA	6540	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Copper Compounds	7440-50-8	.1	.2	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are

some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zirconium or Zirconium Compounds

Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Copper or Copper Compounds

Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-13 Banana

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	15	NA	6540	NA
Zirconium	14940-68-2	NA	NA	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zirconium or Zirconium Compounds

Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None
Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Partition Coefficient - N/A

Explosive Properties - N/A

pH - N/A

Odor and Odor Threshold - N/A

Oxidizing Properties - N/A

Boiling Point - N/A

Melting/Softening Point - None

Solubility in Water - No

Freezing Point - N/A

Vapor Pressure - N/A

Specific Gravity - N/A

Percent Volatile - N/A

Flash Point - N/A

Vapor Density - N/A

Flammable Limits - N/A

Applicable Evaporation Rate - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-14 Oil Spot Black
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Cobalt or Cobalt Compounds	7440-48-4	.01	.02	NA	NA
Manganese or Mang. Compounds	7439-96-5	5 Ceiling	.2	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.

Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds

Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Manganese or Manganese Compounds

Acute effects of exposure: Exposure via inhalation to heavy concentrations of dusts containing manganese compounds for as little as three months have affected the central nervous system as manganese poisoning. Chronic effects of exposure: Excessive, long-term inhalation of airborne mineral dusts and particulate may contribute to the development of bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease. Manganese poisoning: The excessive, chronic inhalation of manganese compounds usually begins with complaints of languor and sleepiness. This is followed by weakness in the legs and the development of stolid, mask-like faces. The patient speaks with a slow monotonous voice. Then muscular twitching appear, varying from a fine tremor of the hands to coarse, rhythmical movements of the arms, legs, and trunk. There is a slight increase in tendon reflexes, ankle and patellar clonus, and a typical Parkinsonian slapping gait.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder	Percent Volatile - N/A
Explosive Properties - N/A	Vapor Density - N/A
Odor and Odor Threshold - N/A	Applicable Evaporation Rate - N/A
Partition Coefficient - N/A	Melting/Softening Point – None
pH - N/A	Freezing Point - N/A
Oxidizing Properties - N/A	Specific Gravity - N/A
Boiling Point - N/A	Flash Point - N/A
Solubility in Water - No	Flammable Limits - N/A
Vapor Pressure - N/A	Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HG-16 Light Beige
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	15	NA	6540	NA
Talc	14807-96-6	.1	.05	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Talc (non asbestiform)

Fibrotic pneumoconiosis; irritation eyes.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HM-1 Matte White
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Zinc Compounds	7440-66-6	5	5	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hypercalcemia, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zinc or Zinc Compounds

May cause skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HM-2 Manzarine Blue
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Cobalt Compounds	7440-48-4	.01	.02	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Zinc Compounds	7440-66-6	5	5	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.

Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)

inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds

Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zinc or Zinc Compounds

May causes skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Odor and Odor Threshold - N/A

Explosive Properties - N/A

Partition Coefficient - N/A

pH - N/A

Applicable Evaporation Rate - N/A

Oxidizing Properties - N/A

Melting/Softening Point - None

Boiling Point - N/A

Freezing Point - N/A

Solubility in Water - No

Specific Gravity - N/A

Vapor Pressure - N/A

Flash Point - N/A

Percent Volatile - N/A

Flammable Limits - N/A

Vapor Density - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HM-4 Waxy Black

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Cobalt Compounds	7440-48-4	.01	.02	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Zinc Compounds	7440-66-6	5	5	NA	NA
Manganese or Mang. Compounds	7439-96-5	5 Ceiling	.2	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds

Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hypercalcemia, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zinc or Zinc Compounds

May cause skin irritation if in contact for extended periods of time.

Manganese or Manganese Compounds

Acute effects of exposure: Exposure via inhalation to heavy concentrations of dusts containing manganese compounds for as little as three months have affected the central nervous system as manganese poisoning. Chronic effects of exposure: Excessive, long-term inhalation of airborne mineral dusts and particulate may contribute to the development of bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease. Manganese poisoning: The excessive, chronic inhalation of manganese compounds usually begins with complaints of languor and sleepiness. This is followed by weakness in the legs and the development of stolid, mask-like faces. The patient speaks with a slow monotonous voice. Then muscular twitching appear, varying from a fine tremor of the hands to coarse, rhythmical movements of the arms, legs, and trunk. There is a slight increase in tendon reflexes, ankle and patellar clonus, and a typical Parkinsonian slapping gait.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Percent Volatile - N/A

Explosive Properties - N/A

Vapor Density - N/A

Odor and Odor Threshold - N/A

Applicable Evaporation Rate - N/A

Partition Coefficient - N/A

Melting/Softening Point - None

pH - N/A

Freezing Point - N/A

Oxidizing Properties - N/A

Specific Gravity - N/A

Boiling Point - N/A

Flash Point - N/A

Solubility in Water - No

Flammable Limits - N/A

Vapor Pressure - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HM-5 Straw Tan
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Zinc Compounds	7440-66-6	5	5	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds

Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zinc or Zinc Compounds

May causes skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Partition Coefficient - N/A

Explosive Properties - N/A

pH - N/A

Odor and Odor Threshold - N/A

Oxidizing Properties - N/A

Boiling Point - N/A

Melting/Softening Point - None

Solubility in Water - No

Freezing Point - N/A

Vapor Pressure - N/A

Specific Gravity - N/A

Percent Volatile - N/A

Flash Point - N/A

Vapor Density - N/A

Flammable Limits - N/A

Applicable Evaporation Rate - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER MINNESOTA/MIDWEST CLAY CO.
 8901 GRAND AVE SE
 BLOOMINGTON, MN. 55420
 EMERGENCY TELEPHONE (612) 884-9101
 CHEMICAL NAME ALUMINA SILICATE
 TRADE NAME AND SYNONYMS HM-6 CERAMIC GLAZE

SECTION II

HAZARDOUS INGREDIENTS

MATERIAL	%	OSHA/PEL 8HR TWA
*FREE SILICA	UP TO 25%	0.1 mg/cu.m.
PARTICULATES NOT OTHER- WISE CLASSIFIED		
MAGNESIUM ALUMINUM SILICATE	N/A	15mg/cu.m.
(EYE IRRITANT)	61%	10mg/cu.m.

*Harmful only when prolonged & excessive respiration of dry, airborne materials occurs.

SPECIAL LABELING INSTRUCTIONS

Minnesota/Midwest Clay Company is a subscriber to the Art and Craft Material Institute, 715 Boylston St., Boston MA 02116. Our clay and glaze products have been evaluated and certified in accordance with the voluntary chronic hazard labeling standard ASTM D-4236 (American Society for Testing and Materials). Products manufactured by Minnesota/Midwest Clay Company are identified with the following labels:

"Products bearing the AP Approved Product or AP Health Label (Non-toxic) seal of The Art and Craft Materials Institute, Inc. are certified in a program of toxicological evaluation by a medical expert to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. This program is reviewed by the Institute's Toxicological Advisory Board. These products are certified by the Institute to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236. In addition, there is no physical hazard as defined within 29 CFR part 1910.1200(c)."



"Products bearing the M. Health Label (Caution Required) seal of The Art and Craft Materials Institute, Inc. are certified to be properly labeled to a program of toxicological evaluation by a medical expert. This program is reviewed by the Institute's Toxicological Advisory Board. These products are certified by the Institute to be labeled in accordance with the voluntary labeling standard ASTM D-4236."



SECTION III

PHYSICAL DATA

BOILING POINT (T):N/A VAPOR DENSITY: N/A
 VAPOR PRESSURE:N/A SOLUBILITY IN WATER:N/A
 SPECIFIC GRAVITY (H2O=1):N/A PERCENT VOLATILE BY VOLUME:N/A
 EVAPORATION RATE:N/A
 APPEARANCE AND ODOR: WHITE OR GREY COLOR. EARTHY ODOR IF WET.



MINNESOTA / MIDWEST CLAY

8001 GRAND AVE SO. • BLOOMINGTON, MN • 55420 / 612-884-9101

ADDITIONAL LABEL INFORMATION

WARNING: EYE IRRITANT. EXPOSURE MAY CAUSE LUNG DAMAGE. CANCER AGENT BY INHALATION BASED ON TESTS WITH LABORATORY ANIMALS.

**CONTAINS: VEEGUM PRO (EYE IRRITANT)
CRYSTALLINE SILICA**

Keep away from eyes. Mix and handle dry material in locally exhausting hood or glove box. Use NIOSH-certified mask for dusts.

KEEP OUT OF REACH OF CHILDREN.

FIRST AID: If eye contact occurs, rinse immediately with water. Remove contact lenses then flush with tap water for 15 minutes. If symptoms persist, see a physician.

For further health information, contact a local poison control center.

This label is for the following dry glazes: G2, G3, G4, G5, G6, G7, G9, G11, G12, G15, G16, G17, HG2, HG3, HG4, HG7, HG8, HG12, HG13, HG16, HM1, HM2, HM6, HMM1, HMM3, HMM7, HMM11, HMB3, HMB4, HMB6.

For the following dry glazes use the same label except omit the CT warning: "EXPOSURE MAY CAUSE LUNG DAMAGE". Those formulas are: T1, T2, T3, T4, T6, TR, HG5, HG6.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: HM-10 Slate Green

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Nickel or Nickel Compounds	7440-02-0	1	.2	NA	NA
Chromium or Chromium Compounds	7440-47-3	.5	.5	NA	NA
Lithium Carbonate	554-13-2	5	15	525 mg/kg	0.80 mg/L

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Nickel or Nickel Compounds

Nickel dust or fume can cause sensitization dermatitis and may cause cancer of the paranasal sinuses and the lungs. Nickel fumes are respiratory irritants and may cause pneumonitis. Skin contact may cause an allergic skin rash. Material causes eye irritation. Avoid contact with eyes, skin and clothing. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Chromium or Chromium Compounds

Odorless, nonflammable green powder which can cause skin, eye, and respiratory irritation. May have adverse effects if ingested. Long-term exposure may adversely affect the lungs. Avoid breathing dusts.

Lithium Carbonate

Lithium carbonate has low oral and dermal toxicity and is moderately irritating to the eyes. It is not sensitizing and is essentially non-irritating to the skin. The use of this product in industrial and commercial applications presents no significant toxicity hazard. Exposure to lithium in industrial settings is not considered to pose a risk to human health.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Percent Volatile - N/A

Explosive Properties - N/A

Vapor Density - N/A

Odor and Odor Threshold - N/A

Applicable Evaporation Rate - N/A

Partition Coefficient - N/A

Melting/Softening Point - None

pH - N/A

Freezing Point - N/A

Oxidizing Properties - N/A

Specific Gravity - N/A

Boiling Point - N/A

Flash Point - N/A

Solubility in Water - No

Flammable Limits - N/A

Vapor Pressure - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Chromium are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: M-1 Mist Gray

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	15	NA	6540	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: M-2 Metallic Slate
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	15	NA	6540	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: M-3 Porcelain

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	15	NA	6540	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney

disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point – None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: M-4 Butterscotch

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	15	NA	6540	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: M-5 Faience Blue
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	15	NA	6540	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: M-9 Danish Green

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	15	NA	6540	NA
Copper Compounds	7440-50-8	.1	.2	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.

Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are

some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Copper or Copper Compounds

Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinels are considered of less hazardous than the individual metals they contain The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder	Percent Volatile - N/A
Explosive Properties - N/A	Vapor Density - N/A
Odor and Odor Threshold - N/A	Applicable Evaporation Rate - N/A
Partition Coefficient - N/A	Melting/Softening Point – None
pH - N/A	Freezing Point - N/A
Oxidizing Properties - N/A	Specific Gravity - N/A
Boiling Point - N/A	Flash Point - N/A
Solubility in Water - No	Flammable Limits - N/A
Vapor Pressure - N/A	Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: M-10 Seal Brown

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	15	NA	6540	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-1 Midas' Touch
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Cobalt Compounds	7440-48-4	.01	.02	NA	NA
Copper Compounds	7440-50-8	.1	.2	NA	NA
Manganese or Mang. Compounds	7439-96-5	5 Ceiling	.2	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.

Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds

Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Copper or Copper Compounds

Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

Manganese or Manganese Compounds

Acute effects of exposure: Exposure via inhalation to heavy concentrations of dusts containing manganese compounds for as little as three months have affected the central nervous system as manganese poisoning. Chronic effects of exposure: Excessive, long-term inhalation of airborne mineral dusts and particulate may contribute to the development of bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease. Manganese poisoning: The excessive, chronic inhalation of manganese compounds usually begins with complaints of languor and sleepiness. This is followed by weakness in the legs and the development of stolid, mask-like faces. The patient speaks with a slow monotonous voice. Then muscular twitching appear, varying from a fine tremor of the hands to coarse, rhythmical movements of the arms, legs, and trunk. There is a slight increase in tendon reflexes, ankle and patellar clonus, and a typical Parkinsonian slapping gait.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Percent Volatile - N/A

Explosive Properties - N/A

Vapor Density - N/A

Odor and Odor Threshold - N/A

Applicable Evaporation Rate - N/A

Partition Coefficient - N/A

Melting/Softening Point - None

pH - N/A

Freezing Point - N/A

Oxidizing Properties - N/A

Specific Gravity - N/A

Boiling Point - N/A

Flash Point - N/A

Solubility in Water - No

Flammable Limits - N/A

Vapor Pressure - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-2 Sea Mist Green
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Copper Compounds	7440-50-8	.1	.2	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Talc (non-asbestiform)	14807-96-6	20	2	NA	NA
Tin Compounds	7440-31-5	2	0	NA	NA
Titanium Dioxide	13463-67-7	.1	.2	NA	NA
Zinc Compounds	7440-66-6	5	5	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Copper or Copper Compounds

Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Talc (non-asbestiform)

Fibrotic pneumoconiosis; irritation eyes.

Tin or Tin Compounds

Chronic exposure to Tin Oxide fumes or dust may result in Stannosis, a form of Pneumoconiosis.

Titanium Dioxide

NIOSH has identified titanium dioxide as a potential occupational carcinogen.

Zinc or Zinc Compounds

May causes skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Percent Volatile - N/A

Explosive Properties - N/A

Vapor Density - N/A

Odor and Odor Threshold - N/A

Applicable Evaporation Rate - N/A

Partition Coefficient - N/A

Melting/Softening Point - None

pH - N/A

Freezing Point - N/A

Oxidizing Properties - N/A

Specific Gravity - N/A

Boiling Point - N/A

Flash Point - N/A

Solubility in Water - No

Flammable Limits - N/A

Vapor Pressure - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-3 Blue Gray Speckle
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Cobalt or Cobalt Compounds	7440-48-4	.01	.02	NA	NA
Titanium Dioxide	13463-67-7	.1	.2	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are

some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds

Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Titanium Dioxide

NIOSH has identified titanium dioxide as a potential occupational carcinogen.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Oxidizing Properties - N/A

Explosive Properties - N/A

Boiling Point - N/A

Odor and Odor Threshold - N/A

Solubility in Water - No

Partition Coefficient - N/A

Vapor Pressure - N/A

Percent Volatile - N/A
Vapor Density - N/A

Freezing Point - N/A
Specific Gravity - N/A

Applicable Evaporation Rate - N/A

Flash Point - N/A

Melting/Softening Point - None

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-4 Sapphire Blue

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: NA

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Cobalt or Cobalt Compounds	7440-48-4	.01	.02	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds

Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility - Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and cobalt are listed on IARC, NTP, OSHA and/or Calif Prop 65 cancer lists

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-5 Blue Jean

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: NA

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Cobalt or Cobalt Compounds	7440-48-4	.01	.02	NA	NA
Copper Compounds	7440-50-8	.1	.2	NA	NA
Zinc Compounds	7440-66-6	5	5	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds

Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Copper or Copper Compounds

Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

Zinc or Zinc Compounds

May causes skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder	Percent Volatile - N/A
Explosive Properties - N/A	Vapor Density - N/A
Odor and Odor Threshold - N/A	Applicable Evaporation Rate - N/A
Partition Coefficient - N/A	Melting/Softening Point - None
pH - N/A	Freezing Point - N/A
Oxidizing Properties - N/A	Specific Gravity - N/A
Boiling Point - N/A	Flash Point - N/A
Solubility in Water - No	Flammable Limits - N/A
Vapor Pressure - N/A	Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility - Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and cobalt are listed on IARC, NTP, OSHA and/or Calif Prop 65 cancer lists

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-6 Red Planet
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: NA

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Talc	14807-96-6	.1	.05	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic

kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Talc (non asbestiform)

Fibrotic pneumoconiosis; irritation eyes.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point - None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility - Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif Prop 65 cancer lists

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-7 Blueberry
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: NA

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Magnesium Carbonate	1309-48-4	15	10	5	
Lithium Carbonate	554-13-2	5	15	525 mg/kg	0.80 mg/L
Cobalt Compounds	7440-48-4	.01	.02	NA	NA
Chromium or Chromium Compounds	7440-47-3	.5	.5	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Magnesium Compounds

May cause irritation, diarrhea and stomach pain.

Lithium Carbonate

Lithium carbonate has low oral and dermal toxicity and is moderately irritating to the eyes. It is not sensitizing and is essentially non-irritating to the skin. The use of this product in industrial and commercial applications presents no significant toxicity hazard. Exposure to lithium in industrial settings is not considered to pose a risk to human health.

Cobalt or Cobalt Compounds

Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Chromium or Chromium Compounds

Odorless, nonflammable green powder which can cause skin, eye, and respiratory irritation. May have adverse effects if ingested. Long-term exposure may adversely affect the lungs. Avoid breathing dusts.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Percent Volatile - N/A

Explosive Properties - N/A

Vapor Density - N/A

Odor and Odor Threshold - N/A

Applicable Evaporation Rate - N/A

Partition Coefficient - N/A

Melting/Softening Point - None

pH - N/A

Freezing Point - N/A

Oxidizing Properties - N/A

Specific Gravity - N/A

Boiling Point - N/A

Flash Point - N/A

Solubility in Water - No

Flammable Limits - N/A

Vapor Pressure - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None
Incompatibility - Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz, Cobalt and Chromium are listed on IARC, NTP, OSHA and/or Calif Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-8 Sage

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Zinc Compounds	7440-66-6	5	5	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zinc or Zinc Compounds

May causes skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-9 Caribbean Green
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Copper Compounds	7440-50-8	.1	.2	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Zinc Compounds	7440-66-6	5	5	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.

Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz)

inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Copper or Copper Compounds

Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zinc or Zinc Compounds

May causes skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility - Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-10 Espresso

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Calcium Carbonate	1317-65-3	5	10	NA	NA
Zinc Compounds	7440-66-6	5	5	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Calcium Carbonate

Overexposure may result in irritation to eyes, skin and respiratory system. Chronic exposure may result in hyperclacemica, alkalosis, and renal impairment. Animal studies suggest that inhalation may enhance susceptibility to respiratory infection.

Zinc or Zinc Compounds

May causes skin irritation if in contact for extended periods of time.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-11 Sandstorm

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Talc (non-asbestiform)	14807-96-6	20	2	NA	NA
Tin Compounds	7440-31-5	2	0	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Talc (non-asbestiform)

Fibrotic pneumoconiosis; irritation eyes.

Tin or Tin Compounds

Chronic exposure to Tin Oxide fumes or dust may result in Stannosis, a form of Pneumoconiosis.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No other specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-12 Floating Blue
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Cobalt or Cobalt Compounds	7440-48-4	.01	.02	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Cobalt or Cobalt Compounds

Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture.

Acute – Likely to be a skin and eye irritant.

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No other specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cobalt are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-14 Charcoal

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point - None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-15 Mint Texture

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Copper Compounds	7440-50-8	.1	.2	NA	NA
Tin Compounds	7440-31-5	2	0	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Copper or Copper Compounds

Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

Tin or Tin Compounds

Chronic exposure to Tin Oxide fumes or dust may result in Stannosis, a form of Pneumoconiosis.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility - Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-16 Metallic Black
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Copper Compounds	7440-50-8	.1	.2	NA	NA
Cobalt or Cobalt Compounds	7440-48-4	.01	.02	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are

some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Copper or Copper Compounds

Overexposure can cause nausea, chills, diarrhea. May cause respiratory irritation, skin irritation (oxide pox), fever, eye irritation with redness, pain, and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over-exposed on a chronic basis.

Cobalt or Cobalt Compounds

Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool, well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility - Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cobalt are listed on IARC, NTP, OSHA and/or Calif Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: NG-18 Tarnished Brass
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Talc	14807-96-6	.1	.05	NA	NA
Manganese or Mang. Compounds	7439-96-5	5 Ceiling	.2	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Talc (non asbestiform)

Fibrotic pneumoconiosis; irritation eyes.

Manganese or Manganese Compounds

Acute effects of exposure: Exposure via inhalation to heavy concentrations of dusts containing manganese compounds for as little as three months have affected the central nervous system as manganese poisoning. Chronic effects of exposure: Excessive, long-term inhalation of airborne mineral dusts and particulate may contribute to the development of bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease. Manganese poisoning: The excessive, chronic inhalation of manganese compounds usually begins with complaints of languor and sleepiness. This is followed by weakness in the legs and the development of stolid, mask-like faces. The patient speaks with a slow monotonous voice. Then muscular twitching appear, varying from a fine tremor of the hands to coarse, rhythmical movements of the arms, legs, and trunk. There is a slight increase in tendon reflexes, ankle and patellar clonus, and a typical Parkinsonian slapping gait.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Partition Coefficient - N/A

Explosive Properties - N/A

pH - N/A

Odor and Odor Threshold - N/A

Oxidizing Properties - N/A

Boiling Point - N/A

Melting/Softening Point - None

Solubility in Water - No

Freezing Point - N/A

Vapor Pressure - N/A

Specific Gravity - N/A

Percent Volatile - N/A

Flash Point - N/A

Vapor Density - N/A

Flammable Limits - N/A

Applicable Evaporation Rate - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: SG-1 Creamy Caramel
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Tin Compounds	7440-31-5	2	0	NA	NA
Titanium Dioxide	13463-67-7	.1	.2	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Tin or Tin Compounds

Chronic exposure to Tin Oxide fumes or dust may result in Stannosis, a form of Pneumoconiosis.

Titanium Dioxide

NIOSH has identified titanium dioxide as a potential occupational carcinogen.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations, No specific information available

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: SG-2 Nebula

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Titanium Dioxide	13463-67-7	.1	.2	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Titanium Dioxide

NIOSH has identified titanium dioxide as a potential occupational carcinogen.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and, or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: SG-3 Blue Ice

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Titanium Dioxide	13463-67-7	.1	.2	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Titanium Dioxide

NIOSH has identified titanium dioxide as a potential occupational carcinogen.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and, or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: SG-4 New Albany Brown
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Titanium Dioxide	13463-67-7	.1	.2	NA	NA
Manganese or Mang. Compounds	7439-96-5	5 Ceiling	.2	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are

some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Titanium Dioxide

NIOSH has identified titanium dioxide as a potential occupational carcinogen.

Manganese or Manganese Compounds

Acute effects of exposure: Exposure via inhalation to heavy concentrations of dusts containing manganese compounds for as little as three months have affected the central nervous system as manganese poisoning. Chronic effects of exposure: Excessive, long-term inhalation of airborne mineral dusts and particulate may contribute to the development of bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease. Manganese poisoning: The excessive, chronic inhalation of manganese compounds usually begins with complaints of languor and sleepiness. This is followed by weakness in the legs and the development of stolid, mask-like faces. The patient speaks with a slow monotonous voice. Then muscular twitching appear, varying from a fine tremor of the hands to coarse, rhythmical movements of the arms, legs, and trunk. There is a slight increase in tendon reflexes, ankle and patellar clonus, and a typical Parkinsonian slapping gait.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Odor and Odor Threshold - N/A

Explosive Properties - N/A

Partition Coefficient - N/A

pH - N/A

Oxidizing Properties - N/A

Boiling Point - N/A

Solubility in Water - No

Vapor Pressure - N/A

Percent Volatile - N/A

Vapor Density - N/A

Applicable Evaporation Rate - N/A

Melting/Softening Point - None

Freezing Point - N/A

Specific Gravity - N/A

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: SG-5 Celestial Blue

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Percent Volatile - N/A

Explosive Properties - N/A

Vapor Density - N/A

Odor and Odor Threshold - N/A

Applicable Evaporation Rate - N/A

Partition Coefficient - N/A

Melting/Softening Point - None

pH - N/A

Freezing Point - N/A

Oxidizing Properties - N/A

Specific Gravity - N/A

Boiling Point - N/A

Flash Point - N/A

Solubility in Water - No

Flammable Limits - N/A

Vapor Pressure - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-1 Clear

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder	Percent Volatile - N/A
Explosive Properties - N/A	Vapor Density - N/A
Odor and Odor Threshold - N/A	Applicable Evaporation Rate - N/A
Partition Coefficient - N/A	Melting/Softening Point – None
pH - N/A	Freezing Point - N/A
Oxidizing Properties - N/A	Specific Gravity - N/A
Boiling Point - N/A	Flash Point - N/A
Solubility in Water - No	Flammable Limits - N/A
Vapor Pressure - N/A	Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-2 Yellow Gold

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products - Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point – None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-3 Sun Yellow

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products - Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point – None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-4 Buckskin

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder	Percent Volatile - N/A
Explosive Properties - N/A	Vapor Density - N/A
Odor and Odor Threshold - N/A	Applicable Evaporation Rate - N/A
Partition Coefficient - N/A	Melting/Softening Point – None
pH - N/A	Freezing Point - N/A
Oxidizing Properties - N/A	Specific Gravity - N/A
Boiling Point - N/A	Flash Point - N/A
Solubility in Water - No	Flammable Limits - N/A
Vapor Pressure - N/A	Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown
Hazardous Polymerization - None
Hazardous Decomposition Products - None
Conditions to Avoid - None
Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-6 Royal Blue

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products - Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point – None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-7 Olive

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Nickel or Nickel Compounds	7440-02-0	1	.2	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney

disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Nickel or Nickel Compounds

Nickel dust or fume can cause sensitization dermatitis and may cause cancer of the paranasal sinuses and the lungs. Nickel fumes are respiratory irritants and may cause pneumonitis. Skin contact may cause an allergic skin rash. Material causes eye irritation. Avoid contact with eyes, skin and clothing. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point – None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-8 Raspberry
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products - Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point – None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-9 Pumpkin

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Pigments (Contains Cadmium)	Varies	NA	NA	NA	NA
Cadmium or Cadmium Pigments	7440-43-9	5 ug/m(3)	NA	2330	229.9 4 hour(s)

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

Cadmium

The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point – None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cadmium are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-10 Cherry

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Pigments (Contains Cadmium)	Varies	NA	NA	NA	NA
Cadmium or Cadmium Pigments	7440-43-9	5 ug/m(3)	NA	2330	229.9 4 hour(s)

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

Cadmium

The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point – None

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz and Cadmium are listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-11 Bright Yellow
Manufacturer's Name: Minnesota Clay
Address: 2960 Niagara Lane, Plymouth MN 55447
Tel Phone: (763) 432-0875
Emergency Tel: None
Date Prepared: July 29, 2011
Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products - Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point – None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

Identity: T-12 Plum

Manufacturer's Name: Minnesota Clay

Address: 2960 Niagara Lane, Plymouth MN 55447

Tel Phone: (763) 432-0875

Emergency Tel: None

Date Prepared: July 29, 2011

Replaces MSDS dated: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m ³)		LD ₅₀ mg/kg	LC ₅₀ mg/m ³
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m³</u> %Silica+2	0.025	NA	NA
Pigments	Varies	NA	NA	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Pigments (Stains)

Contains pigments which are produced from various metal salts, and/or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

SECTION 4 - FIRST-AID MEASURES

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products - Unknown

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

SECTION 7 - HANDLING AND STORAGE

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Store in a cool well-ventilated area.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Powder

Vapor Pressure - N/A

Explosive Properties - N/A

Percent Volatile - N/A

Odor and Odor Threshold - N/A

Vapor Density - N/A

Partition Coefficient - N/A

Applicable Evaporation Rate - N/A

pH - N/A

Melting/Softening Point – None

Oxidizing Properties - N/A

Freezing Point - N/A

Boiling Point - N/A

Specific Gravity - N/A

Solubility in Water - No

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No specific information available.

SECTION 13 - DISPOSAL INFORMATION

Dispose according to local regulations. No specific information available.

SECTION 14 - TRANSPORTATION INFORMATION

No specific information available.

SECTION 15 - REGULATORY INFORMATION

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

SECTION 16 - OTHER INFORMATION

Conforms to D 4236

No other specific information available.