

 1133430
 4053A Blue Spersastain
 DRM100LB

 Product specification
 RS\_FP\_600499
 Revision Date
 05/29/2015

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### **SECTION 1. IDENTIFICATION**

Product name : 4053A Blue Spersastain DRM100LB

00000000001133430

Product code : RS\_FP\_600499

Manufacturer or supplier's details

Company name of supplier : Ferro Corporation

Address : 6060 Parkland Blvd. Suite 250

Mayfield Heights OH 44124-4185

Telephone : (216) 875-5600

Disposal considerations : Dispose of wastes in an approved waste disposal facility.

**Emergency telephone number** 

CHEMTREC In-Country : (800)424-9300

Number

CHEMTREC Global Number : +(1)-703-527-3887(Call Collect)

Recommended use of the chemical and restrictions on use

Recommended use : Industrial use

Restrictions on use : Reserved for industrial and professional use.

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Carcinogenicity : Category 2

**GHS Label element** 

Hazard pictograms



Signal word : Warning

Hazard statements : H351 Suspected of causing cancer.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P281 Use personal protective equipment as required.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/

attention.



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Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
Co-Al spinel blue	1345-16-0	>= 90 - <= 100
		>= 1 - < 5

#### **SECTION 4. FIRST AID MEASURES**

General advice : Consult a physician.

If inhaled : Remove to fresh air.

If unconscious place in recovery position and seek medical

advice.

Never give anything by mouth to an unconscious person.

In case of skin contact : Wash off immediately with soap and plenty of water.

If a person feels unwell or symptoms of skin irritation appear,

consult a physician.

In case of eye contact : Rinse immediately with plenty of water and seek medical

advice.

If swallowed : Do NOT induce vomiting.

Rinse immediately with plenty of water and seek medical

advice.

Most important symptoms

and effects, both acute and

delayed

: Suspected of causing cancer.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: Do not use a solid water stream as it may scatter and spread

fire.

Specific hazards during

firefighting

: Exposure to decomposition products may be a hazard to

health.

Do not allow run-off from fire fighting to enter drains or water

courses.



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Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.

Follow safe handling advice and personal protective

equipment recommendations.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Prevent product from entering drains.

Methods and materials for containment and cleaning up

: Sweep up and shovel into suitable containers for disposal. Clean contaminated floors and objects thoroughly while

observing environmental regulations.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Do not get in eyes or mouth or on skin.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Do not use in areas without adequate ventilation. Keep away from heat and sources of ignition.

Conditions for safe storage : Keep in a dry, cool and well-ventilated place.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Co-Al spinel blue	1345-16-0	TWA	0.02 mg/m3 (Cobalt)	ACGIH
		TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
		TWA	6 mg/m3 (Silica)	NIOSH REL

Engineering measures : Apply technical measures to comply with the occupational

exposure limits.

Provide adequate ventilation.



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Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Hand protection

Material : Protective gloves

Eye protection : Safety glasses with side-shields

Ensure that eyewash stations and safety showers are close

to the workstation location.

Protective measures : Wear suitable protective equipment.

Avoid contact with skin.

When using do not eat, drink or smoke.

Hygiene measures : Remove contaminated clothing and protective equipment

before entering eating areas.

Wash hands before breaks and immediately after handling

the product.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : powder

Colour : coloured

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : Not applicable

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Bulk density : No data available

Solubility(ies)

Water solubility : No data available



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Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : not determined

Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : No data available

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No data available

Chemical stability : No data available

Possibility of hazardous

reactions

: No data available

Conditions to avoid : Incompatible materials

Incompatible materials : Incompatible with oxidizing agents.

Incompatible with strong acids and bases.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

inhalation (dust/mist/fume)

inhalation (vapour)

Skin

Eye contact

Ingestion

### **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

**Components:** 

:

Acute oral toxicity : LD50 Oral (Rat): 3,160 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

# Serious eye damage/eye irritation

Not classified based on available information.



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### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

## Carcinogenicity

Suspected of causing cancer.

**IARC** Group 2B: Possibly carcinogenic to humans

> Co-Al spinel blue 1345-16-0

**ACGIH** Confirmed animal carcinogen with unknown relevance to

humans

Co-Al spinel blue 1345-16-0

**OSHA** No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

**NTP** No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### Reproductive toxicity

Not classified based on available information.

## STOT - single exposure

Not classified based on available information.

# STOT - repeated exposure

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

## **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

## **Components:**

Co-Al spinel blue:

Toxicity to fish : LC50 (Fish): 1,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 10,000 mg/l

aquatic invertebrates

Exposure time: 48 h

# Persistence and degradability

### Components:



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Co-Al spinel blue:

Biodegradability : Remarks: No data available

:

Biodegradability : Remarks: No data available

**Bioaccumulative potential** 

Components:

Co-Al spinel blue:

Bioaccumulation : Remarks: No data available

:

Bioaccumulation : Remarks: No data available

Mobility in soil

**Components:** 

Co-Al spinel blue:

Distribution among : Remarks: No data available

environmental compartments

:

Distribution among : Remarks: No data available

environmental compartments

Other adverse effects

No data available

### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Dispose of wastes in an approved waste disposal facility.

#### **SECTION 14. TRANSPORT INFORMATION**

# International Regulation

**UNRTDG** 

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

**IMDG-Code** 

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

**National Regulations** 

49 CFR DOT



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Not regulated as a hazardous material

#### **SECTION 15. REGULATORY INFORMATION**

TSCA list : TSCA 5a - Not relevant

TSCA\_12b - Not relevant

SARA 311/312 Hazards : Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Co-Al spinel blue 1345-16-0

Massachusetts Right To Know

No components are subject to the Massachusetts Right to

Know Act.

Pennsylvania Right To Know

Co-Al spinel blue 1345-16-0

**New Jersey Right To Know** 

Co-Al spinel blue 1345-16-0

California Prop 65 This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other

reproductive harm.

The components of this product are reported in the following inventories:

REACH : This mixture contains only ingredients which have been

subject to a pre-registration according to Regulation (EC) No.

1907/2006 (REACH).

CH INV : Not in compliance with the inventory

:

TSCA : Not On TSCA Inventory

.

DSL : All components of this product are on the Canadian DSL.

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory



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:

ISHL : Not in compliance with the inventory

:

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TW INV : Not in compliance with the inventory

:

: Co-Al spinel blue

MY INV : Not in compliance with the inventory

:

: Co-Al spinel blue

TR INV : Not in compliance with the inventory

:

: Co-Al spinel blue

## **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA), CH INV (Switzerland), MY INV (Malaysia), TR INV (Turkey), TW INV (Taiwan)

#### **SECTION 16. OTHER INFORMATION**

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.