



Emergency telephone number CHEMTREC: 1-800-424-9300

CHEMTREC (outside U.S.): 1-703-527-3887

Phone Number: 1-724-223-5900

MATERIAL SAFETY DATA SHEET

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Black Cobalt free stain SFF3786 **Product Name:**

Date of Preparation: 09/15/2011

Chemical Family:

Inorganic Pigment

CAS-No.:

Mixture

Product Code:

1026689

2. HAZARDS IDENTIFICATION

Emergency Overview

Caution

May cause respiratory tract, eye and skin irritation. Avoid dust formation. May cause physical irritation.

		<u>HMIS</u>	NFPA 704
Color:	Black	1	1
Physical state:	Powder	0	0
Odor:	Odorless	0	0
		F	

Potential Health Effects

Principle routes of exposure:

Inhalation, ingestion, skin and eye contact.

Eye contact:

May cause slight irritation.

Skin contact:

Prolonged skin contact may cause skin irritation and/or dermatitis.

Inhalation:

May cause irritation of respiratory tract.

Ingestion:

May irritate digestive tract.

Chronic toxicity:

No known effects under normal conditions of use. Excessive inhalation of dust may cause

chemical pneumonitis, cyanosis, and pulmonary edema. Chronic inhalation exposure can

cause lung damage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %
Iron chromite brown spinel	68187-09-7	95 - 99%
Silica, fumed	112945-52-5	1 - 5%

4. FIRST AID MEASURES

Eye contact:

Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation

develops.

Skin contact:

Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing

before re-use. If symptoms persist, call a physician.

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Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion: Drink plenty of water, Do not induce vomiting. Consult a physician if necessary.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point (°C): Non combustible

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment. The product itself does not burn.

Hazardous decomposition products: Metal furnes.

Special protective equipment for

As in any fire, wear self-contained breathing apparatus (pressure-demand, NIOSH approved or equivalent) and full protective gear.

Avoid dust formation. Evacuate area of all unnecessary personnel. Avoid contact with skin,

6. ACCIDENTAL RELEASE MEASURES

eyes and clothing. Wear personal protective equipment. Ensure adequate ventilation.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains.

Methods for cleaning up: Wear personal protective equipment. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly, Dispose of promptly.

7. HANDLING AND STORAGE

Handling:

firefighters:

Personal precautions:

Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Avoid contact with skin, eyes and clothing. Wash hands thoroughly before eating, drinking or smoking. In case of insufficient ventilation, wear suitable respiratory equipment.

Provide appropriate exhaust ventilation at places where dust is formed.

Storage:

Keep container tightly closed in a dry and well-ventilated place. Store in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Minimize exposure in accordance with good hygiene practice.

Components	OSHA	ACGIH
Iron chromite brown spinel	0.5 mg/m ³ TWA Cr	0.5 rng/m ² TWA Cr

Engineering measures: Provide appropriate exhaust ventilation at machinery and at places where dust or fumes can

be generated. Ensure adequate ventilation, especially in confined areas.

Eye protection: Safety glasses with side-shields.

Skin and body protection: Lightweight protective clothing.

Hand protection: Impervious gloves.

Respiratory protection: Use NIOSH approved respirator when ventilation is inadequate. NIOSH-approved respirators

should be worn where engineering controls and work practices do not reduce exposure to or below the PEL. In case of insufficient ventilation wear suitable respiratory equipment. Seek

professional advise prior to respirator selection and use,

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9. PHYSICAL AND CHEMICAL PROPERTIES Black Color: Physical state: Powder Odor: Odorless Molecular weight: No data available pH: No data available No data available Boiling point/range (°C): No data available Specific gravity (Water =1): No data available Melting point/range (°C):

Wash hands before breaks and at the end of workday. Contaminated work clothing should not

No data available

Insoluble

be allowed out of the workplace. Ensure that eyewash stations and safety showers are

Vapor density: Non-volatile Vapor pressure: Evaporation Rate (Water = 1) Non-volatile Water solubility: VOC content (%)

10. STABILITY AND REACTIVITY

proximal to the work-station location.

Stability: Stable at normal conditions.

Will not occur. Polymerization Hazardous decomposition products: None under normal use.

Materials to avoid: None known.

Hygiene measures:

Acute toxicity:

Conditions to avoid None known.

II. TOXICOLOGICAL INFORMATION

Information given is based on data on the components and the toxicology of similar products Not listed by IARC, NTP or OSHA as a carcinogen.

Carcinogenic Effects: Target Organ Effects: Chromium compound (inorganic): Eyes, skin, respiratory system.

Component information, if any, is listed below

Sílica, fumed LD50s and LC50s:

Persistence and degradability:

Oral LD50 (Rat) = 3160 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic toxicity: No data is available on the product itself. Information given is based on data on the components and the ecotoxicology of similar products.

No information available.

13. DISPOSAL CONSIDERATIONS

Waste must be disposed of in accordance with federal, state and local environmental control Waste from residues / unused products: regulations. Where possible recycling is preferred to disposal or incineration.

M. TRANSPORT INFORMATION

DOT (U.S.)

Not regulated. Proper shipping name:

TDG (Canada)

Proper shipping name: Not regulated.

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15. REGULATORY INFORMATION

U.S. Regulations:

* 141 148

Not subject to TSCA 12(b) Export Notification

SARA 313

TSCA:

3ARA 313.	
Components	U.S CERCLA/SARA - Section 313 - Emission Reporting
Chromium compounds (50 - 60%)	1.0 % de minimis concentration

State Regulations

This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and California Prop 65 supplier notification requirements. Substances that are subject to notification requirements, if any, are listed below.

Chromium compounds	Listed (PARTK)

PARTK:

Components	NJRTK:
Chromium compounds	Listed (NJRTK)

Canadian WHMIS

WHMIS hazard class: Non-controlled

Canadian Ingredient Disclosure List (IDL):

Canadian DSL/NDSL list

Components

Components	Canada - WHMIS Ingredient Disclosure:
Chromium compounds	0.1

All ingredient(s) are listed on the DSL or NDSL

International Inventories

TSCA 8(b): Listed or exempt.

EC-No. Listed or exempt.

Philippines (PICCS): Listed.

Japan (ENCS): Listed or exempt.

Korea (KECL): Listed.

China (IECS): Listed.

Australia (AICS): Listed.

New Zealand (NZIoC): Listed.

16. OTHER INFORMATION

For Industrial Use Only.

Prepared by: Ferro Technical Center

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.

End of Safety Data Sheet

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