

Distributed by: Laguna Clay Company 14400 Lomitas Ave City of Industry, CA 91746 1-800-4Laguna info@lagunaclay.com www.lagunaclay.com



Ferro Corporation Performance Pigments & Colors 251 West Wylie Ave. Washington, PA 15301 USA

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

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

Phone Number: 1-724-223-5900

Date of Preparation: 09/14/2011

MATERIAL SAFETY DATA SHEET

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

Product Name: F-3794EZ BLACK 100 LB

LDRUM

Chemical Family: Inorganic Pigment

CAS-No.: Mixture Product Code: 1026692

2. HAZARDS IDENTIFICATION

Emergency Overview

Warning

Irritating to eyes. Irritating to respiratory system and skin, May cause allergic skin or respiratory reaction, Avoid dust formation. May cause physical irritation. Cancer hazard from inhalation (Nickel compounds).

		HMIS	NFPA 704
Color:	Black	2*	2
Physical state:	Powder	0	0
Odor:	Odorless	0	0
		E	

Potential Health Effects

Principle routes of exposure: Inhalation, ingestion, skin and eye contact.

Eye contact: Moderately irritating to the eyes.

Skin contact: Moderately irritating to the skin. May cause allergic skin reaction.

Inhalation: Over-exposure by inhalation may cause respiratory irritation. May cause severe allergic

respiratory reaction.

Ingestion: May irritate digestive tract.

Chronic toxicity: Excessive inhalation of dust may cause chemical pneumonitis, cyanosis, and pulmonary

edema. Chronic inhalation exposure can cause lung damage. Inhalation of nickel and nickel compounds is associated with nasal and lung damage and cancer. Suspect cancer hazard

(cobalt compound).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %
Iron cobalt chomite black spinel	68186-97-0	95 - 99%
Sílica, 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.

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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.

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 fumes.

Special protective equipment for

firefighters:

As in any fire, wear self-contained breathing apparatus (pressure-demand, NIOSH approved or

equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

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

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

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. 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:

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. Use only in well-ventilated areas. 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 cobalt chomite black spinel	0.5 mg/m ³ TWA Cr	0.5 mg/m³ 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. In case of insufficient

ventilation wear suitable respiratory equipment. Seek professional advise prior to respirator selection and use. NIOSH-approved respirators should be worn where engineering controls

and work practices do not reduce exposure to or below the PEL.

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

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

proximal to the work-station location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Black Color: Physical state: Powder

Odor: Odorless Molecular weight: No data available No data available No data available Boiling point/range (°C): :Hq Melting point/range (°C): No data available No data available Specific gravity (Water =1): Vapor density: Non-volatile Vapor pressure: No data available

Evaporation Rate (Water = 1) Non-volatile insoluble Water solubility:

VOC content (%)

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Polymerization Will not occur.

Hazardous decomposition products: None under normal use.

Materials to avoid: None known.

None known.

Information given is based on data on the components and the toxicology of similar products Acute toxicity:

11. TOXICOLOGICAL INFORMATION

IARC made the overall evaluation that "Nickel compounds are carcinogenic to humans (Group Carcinogenic Effects: 1)" on the basis of the combined results of epidemiological studies, carcinogenicity studies in

experimental animals, and several types of other relevant data. IARC has identified Cobalt and

Cobalt compounds as "possibly carcinogenic" as a group.

Nickel compounds: Lungs, skin. Cobalt compound: Skin, respiratory system. Chromium Target Organ Effects:

compound (inorganic): Eyes, skin, respiratory system.

Component information, if any, is listed below

Silica, fumed

Conditions to avoid

LD50s and LC50s: Oral LD50 (Rat) = 3160 mg/kg

12. ECOLOGICAL INFORMATION

No data is available on the product itself. Information given is based on data on the Aquatic toxicity:

components and the ecotoxicology of similar products.

Persistence and degradability: Not determined

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused Waste must be disposed of in accordance with federal, state and local environmental control products:

regulations. Where possible recycling is preferred to disposal or incineration.

14. TRANSPORT INFORMATION

DOT (U.S.)

Proper shipping name: Not regulated.

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14. TRANSPORT INFORMATION

TDG (Canada)

Proper shipping name:

Not regulated.

15. REGULATORY INFORMATION

U.S. Regulations:

TSCA:

Not subject to TSCA 12(b) Export Notification

SARA 313:

Components	U.S CERCLA/SARA - Section 313 - Emission Reporting	
Nickel compounds (10 - 20%)	0.1 % de mínimis concentration	
Chromium compounds (20 - 30%)	1.0 % de mínimis concentration	
Cobalt compounds (30 - 40%)	0.1 % de mínimis 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.

Components	PARTK:
Nickel compounds	Listed (PARTK)
Chromium compounds	Listed (PARTK)
Cobalt compounds	Listed (PARTK)

Components	NJRTK:
Nickel compounds	Listed (NJRTK)
Chromium compounds	Listed (NJRTK)
Cobalt compounds	Listed (NJRTK)

Components	State Regulation - CA Prop65
Nickel compounds	Carcinogen
Cobait compounds	Carcinogen

Canadian WHMIS

WHMIS hazard class: D2A Very toxic materials

Canadian Ingredient Disclosure List (IDL):

Components	Canada - WHMIS Ingredient Disclosure:
Nickel compounds	0.1
Chromium compounds	0.1
Cobalt compounds	0.1

International Inventories

TSCA 8(b): Listed or exempt.

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

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.

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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 safety 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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