



Distributed by:
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MATERIAL SAFETY DATA SHEET

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

Product Name: C-182EZ RED BROWN **Date of Preparation:** 08/04/2010
 DRM100LB
Chemical Family: Inorganic Pigment
Chemical Name: Zinc iron chromite brown spinel
Synonym: Pigment Brown 33.
CAS-No.: 68186-88-9
C.I. Number: 77503
Product Code: 1026559

2. HAZARDS IDENTIFICATION

Emergency Overview

Caution

May cause eye/skin irritation. May cause irritation of respiratory tract. Avoid dust formation.

		HMIS	NFPA 704
Color:	Dark red brown	1*	1
Physical state:	Powder	0	0
Odor:	Odorless	0	0
		E	

Potential Health Effects

Principle routes of exposure: Inhalation. Ingestion.

Eye contact: May cause irritation.

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

Inhalation: Dust irritating to respiratory tract.

Ingestion: May irritate digestive tract.

Chronic toxicity: Repeated or prolonged exposure to the substance can produce lung damage. Chronic inhalation exposure can cause lung damage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %
Zinc-iron-chromite brown spinel	68186-88-9	>99%

The mixed metal oxide pigment in this product is made by high temperature fusion. Due to resulting unique structure, the fired pigment will not necessarily exhibit the same properties as the component oxides or metals in their pure state.

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. Call a physician immediately.

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.

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. Use personal protective equipment.

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.

Methods for cleaning up: Clean up promptly by scoop or vacuum. Wear personal protective equipment. Keep in suitable, closed containers for disposal.

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.

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
Zinc-iron-chromite brown spinel	0.5 mg/m ³ TWA Cr	0.5 mg/m ³ TWA Cr

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

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.

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

Color:	Dark red brown	Physical state:	Powder
Odor:	Odorless	Molecular weight:	No data available
Boiling point/range (°C):	No data available	pH:	7.0
Melting point/range (°C):	No data available	Specific gravity (Water =1):	5.200
Vapor pressure (mmHg):	No data available	Water solubility:	Negligible
VOC content (%)	No data available		

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Polymerization Will not occur.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors

Materials to avoid: None known

Conditions to avoid None known

11. TOXICOLOGICAL INFORMATION

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

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

Component information, if any, is listed below

12. ECOLOGICAL INFORMATION

Aquatic toxicity: Information given is based on data on the components and the ecotoxicology of similar products

Persistence and degradability: Not determined

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT (U.S.)

Proper shipping name: Not regulated.

TDG (Canada)

Proper shipping name: Not regulated.

15. REGULATORY INFORMATION

U.S. Regulations:

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SARA 313: Not subject to the provisions of SARA 313 Title III

Components	SARA 313:
Zinc-iron-chromite brown spinel (>99%)	1.0 % de minimis concentration (Chemical Category N090) 1.0 % de minimis concentration (Chemical Category N982)

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	State Regulations - NJ; PA
Zinc-iron-chromite brown spinel	Listed (NJRTK) Listed (PARTK)

Canadian WHMIS

WHMIS hazard class: D2B Toxic materials.

Canadian Ingredient Disclosure List (IDL):

Components	Canada - WHMIS Ingredient Disclosure:
Zinc-iron-chromite brown spinel	1

International Inventories

- TSCA 8(b): Listed or exempt.
- Canadian DSL: Listed or exempt.
- EC-No. Listed or exempt.
- Philippines (PICCS): Listed.
- Japan (ENCS): One or more ingredient(s) are not on the ENCS list.
- 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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