

## **MATERIAL SAFETY DATA SHEET**

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CHEMTREC: 1-800-424-9300 CHEMTREC (outside U.S.): 1-703-527-3887

Phone Number: 1-724-223-5900

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

Product Name: C-184EZ Brown 100LBDRM Date of Preparation: 09/15/2011

Chemical Family: Inorganic Pigment

CAS-No.: Mixture Product Code: 1026566

## 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

Caution

May cause respiratory tract, eye and skin irritation. May cause allergic skin or respiratory reaction. Avoid dust formation. May cause physical irritation. Cancer hazard from inhalation (Nickel compounds).

		HMIS	<b>NFPA 704</b>
Color:	Brown	1*	1
Physical state:	Powder	0	0
Odor:	Odorless	0	0
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## **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. May cause allergic skin

reaction.

**Inhalation:** May cause irritation of respiratory tract. May cause allergic respiratory reaction.

**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. Inhalation of nickel and nickel compounds is associated with nasal and

lung damage and cancer.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %
Zinc-iron-chromite brown spinel	68186-88-9	>99%
Silica, fumed	112945-52-5	0.5 - 1%

### 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. Use 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:

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
ĺ	Zinc-iron-chromite brown spinel	0.5 mg/m <sup>3</sup> TWA Cr	0.5 mg/m <sup>3</sup> 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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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: Brown Physical state: Powder

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

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

VOC content (%) 0

## 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.

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

Carcinogenic Effects: IARC made the overall evaluation that "Nickel compounds are carcinogenic to humans (Group

1)" on the basis of the combined results of epidemiological studies, carcinogenicity studies in

experimental animals, and several types of other relevant data.

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

skin.

Component information, if any, is listed below

Silica, fumed

**LD50s** and **LC50s**: 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.

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.

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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 (5 - 10%)	0.1 % de minimis concentration
Chromium compounds (30 - 40%)	1.0 % de minimis concentration
Zinc compounds (20 - 30%)	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.

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

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

Components	State Regulation - CA Prop65
Nickel compounds	Carcinogen

## **Canadian WHMIS**

WHMIS hazard class: D2B Toxic materials

## Canadian Ingredient Disclosure List (IDL):

Components	Canada - WHMIS Ingredient Disclosure:
Nickel compounds	0.1
Chromium 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 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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