



MATERIAL SAFETY DATA SHEET

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Performance Pigments & Colors
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name:	F-3786 EZ INT Black	Date of Preparation: 06/28/2013
Chemical Family:	Inorganic Pigment	
Chemical Name:	Iron chromite brown hematite	
Synonym	Pigment Brown 29.	
CAS-No.:	12737-27-8	
C.I. Number:	77500	
Product Code:	1326920	

2. HAZARDS IDENTIFICATION

Emergency Overview

WARNING

Avoid dust formation. Do not breathe vapours/dust. May cause respiratory tract, eye and skin irritation.

Color: Black	Health:	HMIS	NFPA 704
Physical state: Powder	Flammability:	2*	2
Odor: None	Physical Hazard:	0	0
	PPE:	0	0
		E	

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: 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 hematite	12737-27-8	95 - 99%
Silica, amorphous, fumed, cryst.-free	112945-52-5	1 - 5%

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.

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 under fire conditions:	Metal compounds.
Special protective equipment for firefighters:	As in any fire, wear self-contained breathing apparatus (pressure-demand, NIOSH approved or equivalent) and full protective gear.
Unusual hazards:	None known.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid dust formation. Do not breathe vapors/dust. Remove all non-essential people from the affected area. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.
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:	Avoid dust formation. Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink, or smoke in areas of use or storage. Do not take internally. Wash thoroughly after handling.
Storage:	Keep container tightly closed in a dry and well-ventilated place. Store in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits	No TLV assigned. Minimize exposure in accordance with good hygiene practice.
Engineering measures:	Provide appropriate exhaust ventilation at machinery and at places where dust or fumes can be generated. Ensure that eyewash stations and safety showers are proximal to the work-station location. Ensure adequate ventilation, especially in confined areas.
Eye protection:	Safety glasses with side-shields.
Skin and body protection:	Lightweight protective clothing. Remove and wash contaminated clothing before re-use. Keep working clothes separately.

Hand protection: Impervious gloves. Follow the recommendations given by the manufacturer of protective gloves.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. NIOSH-approved respirators should be worn where engineering controls and work practices do not reduce exposure to or below the PEL. Seek professional advice prior to respirator selection and use.

Hygiene measures: Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Black	Physical state:	Powder
Odor:	None	Molecular weight:	No data available
Boiling point/range (°C):	No data available	pH:	No data available
Melting point/range (°C):	No data available	Specific gravity (Water =1):	No data available
Vapor density:	Non-volatile	Vapor pressure :	No data available
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. Thermal decomposition can lead to release of irritating gases and vapors. Metal compounds.

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

Components **NIOSH - Pocket Guide - Target Organs**
Chromium eyes respiratory system skin

Component information, if any, is listed below

Silica, amorphous, fumed, cryst.-free
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: No information available.

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.)

14. TRANSPORT INFORMATION

Proper shipping name: Not Regulated

**TDG (Canada)
Proper Shipping Name** Not Regulated

**IMDG
Proper Shipping Name** Not Regulated

**IATA
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
Chromium (40 - 50%)	1.0 % de minimis concentration
Chromium (III) Compound (95 - 99%)	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:
Chromium	Listed (PARTK)
Chromium (III) Compound	Listed

Components	NJRTK:
Chromium (III) Compound	2245 (1.0%)

Canadian WHMIS

WHMIS hazard class: Non-controlled

Canadian Ingredient Disclosure List (IDL):

Components	Canada - WHMIS Ingredient Disclosure:
Chromium (III) Compound	1

International Inventories

U.S. EPA TSCA 8(b): Listed or exempt.

Canada DSL/NDSL list	All ingredient(s) are listed on the DSL or NDSL
Europe (EINECS):	Listed or exempt.
Philippines (PICCS):	One or more ingredient(s) are not on the PICCS list.
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

Disclaimer: 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