

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: 12/20/2011

MATERIAL SAFETY DATA SHEET

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

Product Name: C-790EZ GRAY 100 LB

LDRUM

Chemical Family: Inorganic Pigment

CAS-No.: Mixture Product Code: 1026626

2. HAZARDS IDENTIFICATION

Emergency Overview

Warning

May cause respiratory tract, eye and skin irritation. May cause allergic skin or respiratory reaction. Avoid dust formation. May cause physical irritation. Contains crystalline silica which causes silicosis and lung cancer. Cancer hazard from inhalation (Nickel compounds).

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

Potential Health Effects

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

Eve 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 severe 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. Respirable crystalline silica has been classified as a Group I (sufficient evidence in humans for carcinogenicity) carcinogenic by IARC and is listed by NTP as a substance which may reasonably be anticipated to be a carcinogen. Long term inhalation causes lung damage (silicosis and cancer). Suspect cancer hazard (cobalt compound). Inhalation of nickel and nickel compounds is associated with nasal

and lung damage and cancer.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %
Zirconium Silicate	14940-68-2	70 - 80%
Cobalt nickel grey pariclase	68186-89-0	20 - 30%
Quartz silica	14808-60-7	1 - 5%
Silica, fumed	112945-52-5	0.1 - 0.5%

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This product contains trace quantities of naturally occurring radioactive uranium, thorium and radium (<0.02% total). Overexposure by inhalation to respirable dusts containing uranium, thorium and radium may cause cancer, however, observance of the OSHA limit for respirable dusts of 5 mg/m³ will ensure the use of this product to be well below the regulatory limits established for these components.

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: Metal fumes.

Special protective equipment for

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: 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:

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
Zirconium Silicate	5 mg/m³ TWA Zr	10 mg/m³ STEL Zr
	-	5 mg/m³ TWA Zr
Quartz silica	Listed	0.025 mg/m³ TWA respirable fraction

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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.

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: Gray Physical state: Powder

Odor:OdorlessMolecular weight:No data availableBoiling point/range (°C):No data availablepH:No data availableMelting point/range (°C):No data availableSpecific gravity (Water =1):No data availableVapor density:Non-volatileVapor 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.

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

Chronic Toxicity: Contains crystalline silica which causes silicosis and lung cancer.

Carcinogenic Effects: Respirable crystalline silica has been classified as a Group I (sufficient evidence in humans for

carcinogenicity) carcinogenic by IARC and is listed by NTP as a substance which may reasonably be anticipated to be a carcinogen. Crystalline silica is also a known cause of silicosis, a non-cancerous lung disease caused by excessive exposure to crystalline silica. IARC has identified Cobalt and Cobalt compounds as "possibly carcinogenic" as a group. 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: Silica: Respiratory system. Cobalt compound: Skin, respiratory system. Nickel compounds:

Lungs, skin.

Component information, if any, is listed below

Cobalt nickel grey pariclase

OSHA - Select Carcinogens: Present

NTP: Known Human Carcinogen

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Cobalt nickel grey pariclase

IARC - Group 1: Listed
IARC - Group 2B: Listed

Quartz silica

LD50s and LC50s: Oral LD50 (Rat) = 500 mg/kg

OSHA - Select Carcinogens: Present

NTP: Known Human Carcinogen

IARC - Group 1: Listed

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.

TDG (Canada)

Proper shipping name: Not regulated.

15. REGULATORY INFORMATION

U.S. Regulations:

TSCA: Not subject to TSCA 12(b) Export Notification

SARA 313:

OAIG-010;		
	Components	U.S CERCLA/SARA - Section 313 - Emission Reporting
	Nickel compounds (20 - 30%)	0.1 % de minimis concentration
	Cobalt compounds (5 - 10%)	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)
Cobalt compounds	Listed (PARTK)

Components	NJRTK:
Quartz silica	Listed (NJRTK)
Nickel compounds	Listed (NJRTK)
Cobalt compounds	Listed (NJRTK)

Components	State Regulation - CA Prop65
Quartz silica	Carcinogen
Zirconium Silicate	Radionuclides
Nickel compounds	Carcinogen
Cobalt compounds	Carcinogen

Canadian WHMIS

WHMIS hazard class: D28 Toxic materials D2A Very toxic materials

Canadian Ingredient Disclosure List (IDL):

Components	Canada - WHMIS Ingredient Disclosure:
Quartz silica	1
Zirconium Silicate	1
Nickel 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): One or more ingredient(s) are not on the PICCS list.

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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