

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



Ferro Corporation 4150 East 56th Street Cleveland, Ohio 44105 USA

Emergency telephone number

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

Phone Number: 1-724-223-5900

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MATERIAL SAFETY DATA SHEET

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

CC263-2 Glaze Frit 50 LB Bags Date of Preparation: 09/23/2011 **Product Name:**

Chemical Family:

Glassy mixture of particle size reduction after milling. Synonym

CAS-No.: 65997-18-4

Formula: TSCA Description: "Frit is a mixture of inorganic chemical substances produced by rapidly

quenching a molten, complex combination of materials, confining the chemical substances thus

manufactured as non-migratory components of glassy solid flakes or granules."

Product Code: 1133983

2. HAZARDS IDENTIFICATION

Emergency Overview

Warning

May cause respiratory tract, eye and skin irritation. Do not breathe vapours/dust. Contains crystalline silica which causes silicosis and lung cancer.

		HMIS	NFPA 704
Color:	White	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.

Eye contact: Contact with eyes may cause irritation.

Skin contact: Prolonged skin contact may cause skin irritation.

Dust or fumes from firing irritating to respiratory tract. Fumes may cause lung inflammation. Inhalation:

Ingestion: May irritate digestive tract.

Chronic toxicity: Excessive inhalation of fumes or 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).

3, COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %
Frit*		100% (May contain - see below)
Quartz silica	14808-60-7	0.5 - 1%

The specific chemical identities are being withheld as a trade secret (29CFR1910.1200).

* Frit, with CAS # [65997-18-4], is a mixture of inorganic chemical substances produced by rapidly quenching a molten, complex combination of materials, confining the chemical substances thus manufactured as non-migratory components of glassy solid flakes or granules. These components are present as part of the Frit.

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This product contains trace quantities of naturally occurring radioactive uranium, thorium and radium (<0.01% 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 thoroughly 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. Get medical attention if irritation develops.

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: The product itself does not burn. Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors. Heavy 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. 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. Prevent product from entering drains. Do

not flush into surface water or sanitary sewer system.

Methods for cleaning up: Wear personal protective equipment. Use approved industrial vacuum cleaner for removal.

Clean contaminated surface thoroughly. Dispose of promptly.

7. HANDLING AND STORAGE

Handling:

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. Do not eat, drink, or smoke in areas of use or storage.

Storage:

Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Minimize exposure in accordance with good hygiene practice.

Components	OSHA	ACGIH
Frit	0.5 mg/m³ TWA Sb	0.5 mg/m³ TWA Sb
	5 mg/m³ TWA Zr	5 mg/m³ TWA 2r
	5 mg/m³ Ceiling Mn	0.2 mg/m³ TWA Mn

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 Components
 OSHA
 ACGIH

 Quartz silica
 Listed
 0.025 mg/m³ TWA respirable fraction

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.

Eye protection: Safety glasses with side-shields.

Skin and body protection: Lightweight protective clothing. Keep working clothes separately. Remove and wash

contaminated clothing before re-use.

Hand protection: Impervious gloves.

Respiratory protection: 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.

Hygiene measures: Wash hands before breaks and at the end of workday. Wash contaminated clothing before re-

use

9. PHYSICAL AND CHEMICAL PROPERTIES

Color: White Physical state: Powder

Odor: Odorless 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 (%)

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Polymerization Will not occur.

Hazardous decomposition products: No decomposition if stored normally. 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.

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.

Target Organ Effects: Silica: Respiratory system.

Component information, if any, is listed below

component information, if any, is listed before

Frit

LD50s and LC50s: Oral LD50 (Rat) = 2000 mg/kg

OSHA - Select Carcinogens: Present

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Frit

NTP: Known Human Carcinogen

NTPS. Carcinogen: Reasonably Anticipated To Be A Human Carcinogen

IARC - Group 1: Listed
IARC - Group 2A: 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

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.)

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:

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	NJRTK:
Quartz silica	Listed (NJRTK)

Components	State Regulation - CA Prop65
Quartz silica	Carcinogen

Canadian WHMIS

WHMIS hazard class: D2B Toxic materials D2A Very toxic materials

International Inventories

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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.

Listed or exempt. Japan (ENCS):

Korea (KECL): Listed. Listed. China (IECS): Australia (AICS): Listed. Listed. New Zealand (NZIoC):

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



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