

# SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

<b>1130102</b>		<b>3269-2 Glaze Frit, Leadless</b>	<b>50 Lb bag</b>
Product specification	<b>RS_FP_600391</b>	Revision Date	<b>06/20/2018</b>
Version	<b>2.1</b>	Print Date	<b>11/21/2019</b>
Material number	<b>1130102</b>	Page	<b>Page 1 of 8</b>

## SECTION 1. IDENTIFICATION

Product name : **1130102**  
3269-2 Glaze Frit, Leadless 50 Lb bag

Material number : **1130102**

### Manufacturer or supplier's details

Company name of supplier : Ferro Corporation  
Address : 6060 Parkland Blvd. Suite 250  
Mayfield Heights OH 44124-4185  
Telephone : (216) 875-5600

### Emergency telephone number

In-Country Number : (800)424-9300  
CHEMTREC Global Number : +(1)-703-527-3887(Call Collect)

### Recommended use of the chemical and restrictions on use

Recommended use : Consult the technical guidelines for the use of this substance/mixture.

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Not a hazardous substance or mixture.

### GHS Label element

Not a hazardous substance or mixture.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance  
Chemical nature : glass/frit

### Hazardous components

No hazardous ingredients

## SECTION 4. FIRST AID MEASURES

General advice : Consult a physician.  
If inhaled : Remove to fresh air.  
If unconscious place in recovery position and seek medical advice.  
Never give anything by mouth to an unconscious person.  
In case of skin contact : Wash off immediately with soap and plenty of water.  
If a person feels unwell or symptoms of skin irritation appear, consult a physician.

# SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

<b>1130102</b>		<b>3269-2 Glaze Frit, Leadless</b>	<b>50 Lb bag</b>
Product specification	<b>RS_FP_600391</b>	Revision Date	<b>06/20/2018</b>
Version	<b>2.1</b>	Print Date	<b>11/21/2019</b>
Material number	<b>1130102</b>	Page	<b>Page 2 of 8</b>

- In case of eye contact : Rinse immediately with plenty of water and seek medical advice.
- If swallowed : Do NOT induce vomiting.  
Rinse immediately with plenty of water and seek medical advice.
- Most important symptoms and effects, both acute and delayed : None known.

## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during firefighting : Exposure to decomposition products may be a hazard to health.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.  
Follow safe handling advice and personal protective equipment recommendations.  
No conditions to be specially mentioned.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Prevent product from entering drains.
- Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

## SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not get in eyes or mouth or on skin.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Do not use in areas without adequate ventilation.  
Keep away from heat and sources of ignition.
- Conditions for safe storage : Keep in a dry, cool and well-ventilated place.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

<b>1130102</b>		<b>3269-2 Glaze Frit, Leadless</b>	<b>50 Lb bag</b>
Product specification	<b>RS_FP_600391</b>	Revision Date	<b>06/20/2018</b>
Version	<b>2.1</b>	Print Date	<b>11/21/2019</b>
Material number	<b>1130102</b>	Page	<b>Page 3 of 8</b>

**Engineering measures** : Apply technical measures to comply with the occupational exposure limits.  
Provide adequate ventilation.

### Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection  
Material : Protective gloves

Eye protection : Safety glasses with side-shields  
Ensure that eyewash stations and safety showers are close to the workstation location.

Protective measures : Wear suitable protective equipment.  
When using do not eat, drink or smoke.

Hygiene measures : Remove contaminated clothing and protective equipment before entering eating areas.  
Wash hands before breaks and immediately after handling the product.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder  
Colour : white  
Odour : odourless  
Odour Threshold : No data available

pH : No data available  
Melting point/range : No data available  
Boiling point/boiling range : No data available  
Flash point : Not applicable  
Evaporation rate : Not applicable

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available  
Relative vapour density : No data available

Relative density : 1.6 - 3.0

Bulk density : No data available

Solubility(ies)  
Water solubility : insoluble

Partition coefficient: n-octanol/water : No data available

# SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

<b>1130102</b>		<b>3269-2 Glaze Frit, Leadless</b>	<b>50 Lb bag</b>
Product specification	<b>RS_FP_600391</b>	Revision Date	<b>06/20/2018</b>
Version	<b>2.1</b>	Print Date	<b>11/21/2019</b>
Material number	<b>1130102</b>	Page	<b>Page 4 of 8</b>

Auto-ignition temperature : Not determined  
Decomposition temperature : No data available  
Viscosity  
Viscosity, kinematic : No data available

Oxidizing properties : No data available  
Refractive index : Not applicable

Volatile organic compounds (VOC) content : 0 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available  
Chemical stability : No data available  
Possibility of hazardous reactions : No data available  
Hazardous decomposition products : Stable under normal conditions.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

inhalation (dust/mist/fume)

inhalation (vapour)

Skin

Eye contact

Ingestion

### Acute toxicity

Not classified based on available information.

### Skin corrosion/irritation

Not classified based on available information.

### Serious eye damage/eye irritation

Not classified based on available information.

### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

# SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

<b>1130102</b>		<b>3269-2 Glaze Frit, Leadless</b>	<b>50 Lb bag</b>
Product specification	RS_FP_600391	Revision Date	06/20/2018
Version	2.1	Print Date	11/21/2019
Material number	1130102	Page	Page 5 of 8

<b>IARC</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<b>NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified based on available information.

### STOT Specific Target Organ Toxicity - single exposure

Not classified based on available information.

### STOT Specific Target Organ Toxicity - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

# SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

<b>1130102</b>		<b>3269-2 Glaze Frit, Leadless</b>	<b>50 Lb bag</b>
Product specification	RS_FP_600391	Revision Date	06/20/2018
Version	2.1	Print Date	11/21/2019
Material number	1130102	Page	Page 6 of 8

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of wastes in an approved waste disposal facility.

## SECTION 14. TRANSPORT INFORMATION

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### 49 CFR

Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

**TSCA list** : TSCA\_12b - Not relevant

**TSCA list** : TSCA 5a - Not relevant

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

# SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

<b>1130102</b>		<b>3269-2 Glaze Frit, Leadless</b>	<b>50 Lb bag</b>
Product specification	<b>RS_FP_600391</b>	Revision Date	<b>06/20/2018</b>
Version	<b>2.1</b>	Print Date	11/21/2019
Material number	<b>1130102</b>	Page	Page 7 of 8

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know

This product contains components that are reportable under the regulation.

### New Jersey Right To Know

This product contains components that are reportable under the regulation.

### California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### The components of this product are reported in the following inventories:

EINECS (European Union)	: On the inventory, or in compliance with the inventory
SWISS (Switzerland)	: On the inventory, or in compliance with the inventory
TSCA (United States)	: On TSCA Inventory
DSL/NDSL (Canada)	: All components of this product are on the Canadian DSL.
AICS (Australia)	: On the inventory, or in compliance with the inventory
NZioC (New Zealand)	: On the inventory, or in compliance with the inventory
ENCS (Japan)	: On the inventory, or in compliance with the inventory
ISHL (Japan)	: On the inventory, or in compliance with the inventory
KECI (Korea)	: On the inventory, or in compliance with the inventory
PICCS (Philippines)	: On the inventory, or in compliance with the inventory

# SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

<b>1130102</b>		<b>3269-2 Glaze Frit, Leadless</b>	<b>50 Lb bag</b>
Product specification	<b>RS_FP_600391</b>	Revision Date	<b>06/20/2018</b>
Version	<b>2.1</b>	Print Date	11/21/2019
Material number	<b>1130102</b>	Page	Page 8 of 8

---

IECSC (China)	:	On the inventory, or in compliance with the inventory
TCSI (Taiwan)	:	On the inventory, or in compliance with the inventory
CICR (Turkey)	:	On the inventory, or in compliance with the inventory
INSQ (Mexico)	:	On the inventory, or in compliance with the inventory

---

## SECTION 16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet : [1] Estudio de Evaluación de Riesgos de la Fritas Cerámicas, Universitat Jaume I, 2005  
[2] Modelling Study of Ceramic Frits Formulation for their Classification in REACH, Universtat Jaume I, 2009  
[3] 2009 Validity Assessement of the Exemption Dossier Cera

Revision Date : 06/20/2018

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN