

1027480		3195-2 Glaze Frit	50 Lb bag
Product specification	RS_FP_307428	Revision Date	08/26/2018
Version	1.6	Print Date	11/20/2019
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SECTION 1. IDENTIFICATION

Product name	:	1027480 3195-2 Glaze Frit	50 Lb bag
Material number	:	1027480	
Manufacturer or supplier's c	leta	nils	
Company name of supplier Address		Ferro Corporation 6060 Parkland Blvd Mayfield Heights Of	
Telephone	:	(216) 875-5600	
Emergency telephone numb	ber	、 ,	
		(800)424-9300	
CHEMTREC Global Number	:	+(1)-703-527-3887(Call Collect)
Recommended use of the cl	hen	nical and restriction	s on use
Pacammandad usa		Concult the technic	al quidalinea for the u

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 If inhaled	Consult a physician.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.



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In case of eye co	ntact : Rinse i advice.	mmediately with plenty of	water and seek medical
If swallowed : Do NOT		F induce vomiting. mmediately with plenty of	water and seek medical
Most important sy and effects, both delayed		nown.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media Specific hazards during firefighting	 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray. 	d
Hazardous combustion products	No hazardous combustion products are known	
Further information	 Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. 	
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	 Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. No conditions to be specially mentioned.
Environmental precautions	: No special environmental precautions required.
Methods and materials for containment and cleaning up	 Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage	 Keep in a dry, cool and well-ventilated place. No special restrictions on storage with other products.
Materials to avoid	No materials to be especially mentioned.



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters Contains no substances with occupational exposure limit values.				
Engineering measures	 Apply technical measures to comply with the occupational exposure limits. Provide adequate ventilation. 			
Personal protective equipme	ent			
Respiratory protection Hand protection	: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.			
Material	: Protective gloves			
Eye protection	 Safety glasses 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	 Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. 			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colour Odour Odour Threshold	:	powder white odourless No data available
pH Melting point/range Boiling point/boiling range Flash point Evaporation rate	:	No data available No data available No data available Not applicable Not applicable
Burning rate Upper explosion limit	:	No data available No data available
Lower explosion limit	:	No data available
Vapour pressure Relative vapour density	:	No data available No data available
Relative density	:	No data available
Density	:	No data available



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

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Bulk density	:	No data ava	ailable			
Solubility(ies)						
Water solubility	:	insoluble				
Solubility in other s	olvents :	No data ava	ailable			
Partition coefficient: r)- :	No data ava	ailable			
Auto-ignition tempera	ture ·	Not determi	ined			
Decomposition temperature		No data ava				
Viscosity						
Viscosity, dynamic		: No data available				
Viscosity, kinemati	c :	No data ava	ailable			
Explosive properties	:	No data ava	ailable			
Oxidizing properties	:	No data ava	ailable			
Refractive index	:	Not applica	ble			
Volatile organic comp (VOC) content	oounds :	0 %				
(, , , , , , , , , , , , , , , , , , ,		U.S. Clean VOC's (40 (This produc	Air Act Section 111 S CFR 60.489).	y chemicals listed under the OCMI Intermediate or Final by VOC exemptions listed ction 450.		

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	 Stable under recommended storage conditions. No decomposition if stored and applied as directed. No dangerous reaction known under conditions of normal use. No decomposition if stored and applied as directed.
Hazardous decomposition products	: Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

inhalation (dust/mist/fume) Skin Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Remarks: No data available



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Acute inhalation	n toxicity : Re	marks: No data available					
Acute dermal to	oxicity : Re	marks: No data available					
Skin corrosion/ir	ritation						
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.

IARC	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.
OSHA	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.
NTP	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

Product:

Ecotoxicology Assessment Acute aquatic toxicity

: This product has no known ecotoxicological effects.



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Chronic aquatic to	oxicity :	This proc	luct has no known ec	otoxicological effects.
Persistence and de	gradability			
<u>Product:</u> Biodegradability	:	Remarks	: No data available	
Bioaccumulative po	otential			
Product: Bioaccumulation	:	Remarks	: No data available	
Mobility in soil				
Product: Distribution amon environmental co	0	Remarks	: No data available	
Other adverse effect	cts			
Product: Ozone-Depletion	Potential :	Protectio Substanc Remarks manufact	n of Stratospheric Oz es : This product neither ured with a Class I or	n of Environment; Part 82 cone - CAA Section 602 Class I r contains, nor was r Class II ODS as defined by the 2 (40 CFR 82, Subpt. A, App.A +

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues Contaminated packaging	 Dispose of wastes in an approved waste disposal facility. Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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



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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 w 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).

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 SOCMI 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



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		This pro the regu		ts that are reportable under	
New Jersey Right 1	Γο Know	This pro the regu		ts that are reportable under	
California Prop 65	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 o EINECS (European	-	-	orted in the following in nventory, or in compliance		
SWISS (Switzerland) :	On the i	nventory, or in complianc	e with the inventory	
TSCA (United States	s) :	On TSC	A Inventory		
DSL/NDSL (Canada) :	All comp	ponents of this product ar	e on the Canadian DSL.	
AICS (Australia)	:	On the i	nventory, or in complianc	e with the inventory	
NZioC (New Zealand	d) :	On the i	nventory, or in complianc	e with the inventory	
ENCS (Japan)	:	On the i	nventory, or in complianc	e with the inventory	
ISHL (Japan)	:	On the i	nventory, or in complianc	e with the inventory	
KECI (Korea)	:	On the i	nventory, or in complianc	e with the inventory	
PICCS (Philippines)	:	On the i	nventory, or in complianc	e with the inventory	
IECSC (China)	:	On the i	nventory, or in complianc	e with the inventory	
TCSI (Taiwan)	:	On the i	nventory, or in complianc	e with the inventory	
CICR (Turkey)	:	On the i	nventory, or in complianc	e with the inventory	
INSQ (Mexico)	:	On the i	nventory, or in complianc	e 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
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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.

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