SECTION 1. IDENTIFICATION

Product name: 1027480
3195-2 Glaze Frit 50 Lb bag

Material number: 1027480

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: Ceramic coating suited for firing, for glass and ceramics.
Restrictions on use: Reserved for industrial and professional use.

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.

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: Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray.

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.

Materials to avoid:
- No special restrictions on storage with other products.
- No materials to be especially mentioned.

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 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
- 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.
### Appearance
- 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

### Burning rate
- No data available

### 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
- No data available

### Density
- No data available

### Bulk density
- No data available

### Solubility(ies)
- Water solubility: No data available
- Solubility in other solvents: No data available

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

### Auto-ignition temperature
- Not determined

### Decomposition temperature
- No data available

### Viscosity
- Viscosity, dynamic: No data available
- Viscosity, kinematic: No data available

### Explosive properties
- No data available
SAFETY DATA SHEET


<table>
<thead>
<tr>
<th>Product specification</th>
<th>Revision Date</th>
<th>Material number</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS_FP_307428</td>
<td>03/13/2017</td>
<td>1027480</td>
<td>Page 5 of 9</td>
</tr>
<tr>
<td>1.4</td>
<td>Print Date</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SECTION 10. STABILITY AND REACTIVITY**

<table>
<thead>
<tr>
<th>Reactivity</th>
<th>Stable under recommended storage conditions.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical stability</td>
<td>No decomposition if stored and applied as directed.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>No dangerous reaction known under conditions of normal use.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Incompatible materials</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>No data available</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Stable under normal conditions.</td>
</tr>
</tbody>
</table>

**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
- Acute inhalation toxicity: Remarks: No data available
- Acute dermal toxicity: Remarks: No data available

**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.

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.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

Product:
Biodegradability : Remarks: No data available

Bioaccumulative potential

Product:
Bioaccumulation : Remarks: No data available
Mobility in soil

**Product:**

Distribution among environmental compartments: Remarks: No data available

Other adverse effects
No data available

SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

UNRTDG
Not regulated as a dangerous good

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 5a - Not relevant
- TSCA_12b - Not relevant

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

**SARA 311/312 Hazards:**
- No SARA Hazards
SAFETY DATA SHEET


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</tr>
<tr>
<td>Material number</td>
<td>1027480</td>
<td>Page</td>
</tr>
</tbody>
</table>

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.

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:

- 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): Not in compliance with the inventory
- ENCS (Japan): On the inventory, or in compliance with the inventory
- ISHL (Japan): Not 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
- IECSC (China): 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

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Classification in REACH, Universtat Jaume I, 2009


Revision Date : 03/13/2017

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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