



## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** F-156G Granular Fertilizer Micronutrient  
**Chemical Name:** Proprietary mixture of oxides and sulfates  
**Guaranteed Analysis:** 36% Mg  
**CAS Registry Number:** Proprietary  
**Product Use:** Fertilizer Micronutrient Additive  
**Manufacturer/Supplier:** Frit Industries Inc, PO Box 1589, Ozark, AL 36361-1589  
**Telephone:** 334-774-2515  
**Emergency Phone #s:** **FOR CHEMICAL EMERGENCY**  
(Spill, Leak, Fire, Exposure or Accident) **800-535-5053**  
**FOR MEDICAL/HANDLING EMERGENCIES**  
**INFOTRAC USA: 800-535-5053 • International: 352-323-3500**

## 2. SIGNAL WORD

**WARNING**



**Irritant**

### EMERGENCY OVERVIEW

Dark Gray Granule. Not flammable or explosive, but will decompose in extreme heat to produce toxic sulfur oxide gas and metal fume. The granular solid or dust is relatively non-toxic to humans and poses little immediate hazard to emergency response personnel, but is partially soluble in water and can pose a threat to watercourses.

### **MAY CAUSE EYE, SKIN, AND RESPIRATORY IRRITATION.**

- Avoid contact with skin and clothing. Wash after handling.
- Wear appropriate personal protective equipment. (See Section 8 for additional information)

**Appearance and odor: SOLID GRAY GRANULES/SLIGHT METALLIC ODOR.**

### **\*\*\* PROPOSITION 65 WARNING \*\*\***

This product contains chemicals known to the state of California to cause Cancer and/or birth defects or other reproductive harm.

### **POTENTIAL HEALTH EFFECTS** (*See Section 11 for additional information*)

Primary Route (s) of Exposure: Skin contact, eye contact and inhalation

Acute Exposure:

- Inhalation Causes irritation to respiratory tract, symptoms may include coughing, sore throat, and shortness of breath.
- Eye Contact Dust may cause irritation.
- Skin Contact Dust may cause irritation.
- Ingestion Not likely to be toxic, but may cause irritation of the mouth, throat, and stomach.



Carcinogenicity: This product does not contain any carcinogens or potential carcinogens.

Chronic Effect/Developmental Can cause damage to respiratory system, urinary system, blood system, and reproductive system.

Medical Conditions Aggravated: Skin disorders, kidney disorders, or pulmonary function disorders.

**POTENTIAL ENVIRONMENTAL EFFECTS** (See Section 12 for additional information)

*This material is a water pollutant. Do not let spilled or leaking material enter waterways.*

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Ingredients (See Section 8 for Exposure Limits) | % (w/w) | CAS Number | Air Threshold Limit Value  |
|---|---------|------------|----------------------------|
| Iron Oxide                                      | 5-15    | 1309-37-1  | 5.00 mg Fe/m <sup>3</sup>  |
| Iron Sulfate                                    | 1-2     | 7720-78-7  | 1.00 mg Fe/m <sup>3</sup>  |
| Magnesium Oxide                                 | 60-75   | 1309-48-4  | 10.00 mg Mg/m <sup>3</sup> |
| Magnesium Sulfate                               | 2-5     | 7487-88-9  | 10.00 mg Mg/m <sup>3</sup> |
| Calcium Oxide                                   | 1-5     | 1305-78-8  | 2.00 mg Ca/m <sup>3</sup>  |
| Gypsum  | 5-10    | 13397-24-5 | 10.00 mg Ca/m <sup>3</sup> |
| Silica Dioxide                                  | 2-5     | 7631-86-9  | 10.00 mg/m <sup>3</sup>    |

**4. FIRST AID MEASURES**

**Inhalation:** Remove affected person to fresh air. Seek immediate medical attention if breathing is difficult.

**Eye Contact:** Flush with water for 15 minutes. Do not rub eyes. Seek medical attention if irritation persists.

**Skin Contact:** Wash with soap and water. If irritation develops seek medical attention. Launder clothing before reuse.

**Ingestion:** Do not induce vomiting. Seek medical attention immediately.



## 5. FIRE FIGHTING MEASURES

**Conditions of Flammability:** Non-flammable  
**Flash Point (Method):** N/A  
**Auto-Ignition Temperature:** N/A  
**Extinguishing Media:** This product is not flammable or combustible. If involved in a fire, use water fog or spray, dry chemical, foam or carbon dioxide extinguishing agents.

**Fire Fighting Procedures:** Wear self-contained breathing apparatus, approved by NIOSH. Do not wash material into any streams, waterways, drainage ditches, or storm sewers, etc. Impound liquids used in firefighting to prevent entry into streams, ditches, sewers, etc.

**Fire & Explosion Hazards:** Not flammable or explosive.  
**Hazardous Combustion Products:** Oxides of sulfur, metal fume.

|   | Health: | Fire: | Reactivity: | Other: |
|---|---------|-------|-------------|--------|
| NFPA Hazard Rating  | 1       | 0     | 0           | None   |
| <i>[ 0 – Minimal      1 – Slight      2 – Moderate      3 – High      4 – Extreme ]</i> |         |       |             |        |

## 6. ACCIDENTAL RELEASE MEASURES

**Spill/Leak:** Safely stop source of spill. Restrict non-essential personnel from area. All personnel involved in spill clean up should avoid skin and eye contact by wearing appropriate personal protective equipment.

**Cleanup:** Sweep up spilled solid material, being careful not to create dust. Return sweepings to stock or, if contaminated, place into a chemical waste container for disposal according to local, state, and/or federal regulations.

## 7. HANDLING AND STORAGE

Store in cool, dry, well-ventilated area away from incompatible substances. Protect from physical damage. Avoid generating dust and the release of dust into the workplace. Refrain from eating, drinking, or smoking in work areas.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Applicable Exposure Limits:

- OSHA

| Chemical Name   | OSHA – PELS<br>(mg / m <sup>3</sup> ) |               | ACGIH – TLVs<br>(mg / m <sup>3</sup> ) |               | NIOSH – RELS<br>(mg / m <sup>3</sup> ) |               |
|-----------------|---------------------------------------|---------------|--|---------------|--|---------------|
|                 | TWA                                   | STEL/CEIL (C) | TWA                                    | STEL/CEIL (C) | TWA                                    | STEL/CEIL (C) |
| Iron Oxide      | 10                                    | N/D           | 5                                      | N/D           | 5                                      | N/D           |
| Iron Salts      | N/D                                   | N/D           | 1                                      | N/D           | 1                                      | N/D           |
| Magnesium Oxide | 15 Total                              | N/D           | 10                                     | N/D           | N/D                                    | N/D           |
| Calcium Oxide   | 5                                     | N/D           | 2                                      | N/D           | 2                                      | N/D           |
| Gypsum          | 15 Total<br>5 Respirable              | N/D           | N/D                                    | N/D           | 10 Total<br>5 Respirable               | N/D           |
| Silicon Dioxide | 15 Total<br>5 Respirable              | N/D           | N/D                                    | N/D           | 10 Total<br>5 Respirable               | N/D           |

[Ref: ACGIH Guide to Occupational Exposure Values, 2006 Edition]

#### Legend:

|        |   |       |  |
|--------|---|-------|--|
| CEIL:  | Ceiling Exposure Limit                                    | PEL:  | Permissible Exposure Limit             |
| STEL:  | Short Term Exposure Limit                                 | REL:  | Recommended Exposure Limit             |
| N/D:   | Not Determined  | TLV:  | Threshold Limit Value                  |
| ACGIH: | American Conference of Governmental Industrial Hygienists | TWA:  | Time-Weighted Average                  |
| NIOSH: | National Institute for Occupational Safety and Health     | WEEL: | Workplace Environmental Exposure Level |
| OSHA:  | Occupational Safety and Health Administration             |       |  |

### Personal Protective Equipment (PPE)

- Protective Clothing: The hazard potential of this material is low. Where there is large-scale use of this material and significant potential for worker contact, gloves and long sleeved work clothes or disposable coveralls may be necessary. Eye protection should be worn where dust is generated and there is a potential that eye contact may occur.
- Ventilation: Use adequate local or general ventilation where necessary to maintain the concentrations of dust well below the recommended occupational exposure limits for general particulates. Not Otherwise Specified (NOS).
- Respirators: Where dust or fumes are generated and cannot be controlled to within acceptable levels by engineering means, use appropriate NIOSH-approved respiratory protection equipment (a 42CFR84 Class N, R or P-95 particulate filter cartridge).





### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available on the mixture. Components within the mixture can be damaging to aquatic organisms.

**Chemical Fate:** The substance is not expected to enter the atmosphere.

**Biodegradation:** This product is not expected to be readily biodegradable based on structural condition.

### 13. DISPOSAL CONSIDERATIONS

**Waste & Container Disposal:** Do not wash down drain. Put uncontaminated material back into process if at all possible. Place contaminated material in suitable, labeled containers for disposal. Dispose of waste material consistent with the requirements of waste disposal authorities.

### 14. TRANSPORT INFORMATION

|   |                              |
|---|------------------------------|
| <b>Shipping Information:</b>  | Not regulated for transport. |
| <b>Required Labels:</b>   | N/A                          |
| <b>Environmentally Hazardous Substances [49 CFR 172.101, Appendix A]:</b> | N/A                          |

### 15. REGULATORY INFORMATION

| Regulatory Lists:                               |      |       |
|---|------|-------|
| Ingredients listed on TSCA inventory            | YES  | ----- |
| Hazardous work hazard communication standard    | NO   |       |
| CERCLA Section 103 Hazardous Substances         | NO   |       |
| EPCRA Section 302 Extremely Hazardous Substance | NO   | ----- |
| EPCRA Section 311/312 Hazard Categories         | NONE |       |
| EPCRA Section 313 Toxic Release Inventory       | NO   |       |

### Micronutrient Approvals / Registrations

|  |                            |
|--|----------------------------|
| • California Department of Food and Agriculture (CDFA) | Company Registration# 2030 |
|--|----------------------------|



## 16. OTHER INFORMATION

**Prepared by: DWB**

**Frit Industries Inc., PO Box 1589, Ozark, AL 36361-1589  
Ph: 334-774-2515**

*The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. All information concerning this product and/or all suggestions for handling and use contained herein are offered in good faith and are believed to be reliable as of the date of publication. Frit Industries, however, makes no warranty as to the accuracy of and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. Buyer shall determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. The information contained herein supersedes all previously issued bulletins on the subject matter covered.*

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|-----------------------------|------------|-------------------------|-----|
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