

# **1. IDENTIFICATION**

Product Name:	F-312G Granular Fertilizer Micronutrient
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Product Type:

Recommended /Restrictions of use: Fertilizer Micronutrient Additive

Solid

Supplier's Details: Frit Industries Inc PO Box 1589 Ozark, AL 36361-1589 334-774-2515

Emergency contact number:

Chemical Emergencies - 800-535-5053 Medical/Handling Emergencies - INFOTRAC 800-535-5053 USA 352-323-3500 International

## 2. HAZARDS IDENTIFICATION

Hazard Classification:	This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.		
	Serious eye damage – Category 1 Acute Toxicity (oral) – Category 4		
Signal word:	Danger		
Hazard statements:	Causes serious eye damage (H318) Harmful if swallowed (H302)		
Hazard pictograms:			
Precautionary statements Prevention	•		
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor. IF SWALLOWED: Call a doctor if you feel unwell. Rinse mouth.		
Storage	NA		
Disposal	Dispose of contents/container to an approved waste disposal.		
Other hazards:	None identified.		
Other hazards not contrib	buting to the classification: Spill area may be slippery.		
Unknown components w	ith acute toxicity: None.		



### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

This product is a mixture

Chemical name/component	CAS#	Concentration
Sodium Calcium Borate	1319-33-1	> 25 - < 35%
Magnesium Oxide	1309-48-4	> 20- < 30%
Magnesium Sulfate	7487-88-9	> 10 - < 20%
Zinc Oxide	1314-13-2	> 5 - < 15%
Zinc Sulfate	7733-02-0	> 5 - < 10%

#### 4. FIRST-AID MEASURES

Description of first aid measures:

Eye Contact --If in eyes:Flush with water for 15 minutes. Call a doctor for treatment if irritation persists.Skin Contact - If on skin:Wash thoroughly with soap and water. Launder clothing before reuse.Inhalation -- If inhaled:Remove affected person from source of exposure. Call 911 if breathing is difficult.Ingestion -- If ingested:Do not induce vomiting. Get medical attention. Have the product label with you when calling a doctor or going for treatment.

Indication of any immediate medical attention and special treatment needed: No additional information available.

# **5. FIRE-FIGHTING MEASURES**

Extinguishing media:	
Suitable extinguishing media:	Water fog, foam or spray, dry chemical, carbon dioxide, sand
Unsuitable extinguishing media	a: None
Special hazards arising from th	Material is not combustible. Product packaging is not self-ignitable, but may
substance or mixture:	support combustion.
Advice for firefighters:	
Firefighting instructions:	Use extinguishing media appropriate for the surrounding materials.
Protection during	Wear appropriate protective equipment and self-contained breathing apparatus
firefighting:	(SCBA) with a full face-piece operated in positive pressure mode.
Other information:	Do not allow run-off from fire-fighting to enter drains or water courses.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Use protective equipment to prevent contact with skin and eyes or inhalation of dust. Use site specific emergency procedures if product is released. Prevent entry to sewers and public surface waters per site specific containment procedures.

Methods and material for containment and cleaning up:

Use mechanical means. Store material in suitable containers for recycle or disposal. Minimize dust generation.



### 7. HANDLING AND STORAGE

<u>Precaution for safe handling</u>: Avoid contact with skin and eyes. After handling, wash hands thoroughly with soap and water. Avoid generating and breathing dust. Wash before eating and drinking.

Safe Storage conditions:Store in a dry, cool, and well-ventilated area. Protect from weather.Incompatible materials:Strong alkaline or acid compounds.

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

<u>, if they exist:</u>	-	
Regulation	Type of listing	Value/Notation
ACGIH	TWA	10 mg/ m <sup>3</sup>
ACGIH	TWA	3 mg/ m <sup>3</sup>
OSHA/ ACGIH	TWA	15 mg/ m <sup>3</sup> / 10 mg/ m <sup>3</sup>
OSHA / ACGIH / NIOSH	TWA	$10 \text{ mg/m}^{3/5} \text{ mg/m}^{3/5} \text{ mg/m}^3$
	Regulation ACGIH ACGIH OSHA/ ACGIH	RegulationType of listingACGIHTWAACGIHTWAOSHA/ ACGIHTWA

Engineering controls:	Use adequate ventilation to prevent exposure.
Personal protective measures:	
Hand protection:	Wear suitable protective gloves to prevent direct exposure.
Eye protection:	Safety glasses with side shields or tight fitting goggles.
Skin and body protection:	Wear long sleeved clothing or other suitable clothing to prevent skin exposure.
Respiratory protection:	Where dust is generated and appropriate engineering controls cannot maintain acceptable levels, use appropriate respiratory protection equipment to prevent inhalation of materials.
Special requirements for PPE, protective clothing or respirators:	No specialty PPE requirements beyond those previously identified.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid	Vapor pressure:	NA
Color:	Dark Brown	Vapor density:	NA
Odor:	Slight metallic	Relative density	90 lbs/ft <sup>3</sup>
Odor threshold:	NA	Solubility:	Partially soluble in water
pH:	5-6.5	Partition coefficient:	NA
Melting point/freezing	NA	Auto ignition temp:	NA
point:			
Initial boiling point/range:	NA	Decomposition temp:	NA
Flashpoint:	NA	Viscosity:	NA
Evaporation rate:	NA		
Flammability (solid gas):	NA		
Upper/lower flammability	NA		
or explosive limits:			

Other information:

No additional information.



#### **10. STABILITY AND REACTIVITY**

**Reactivity:** This product is stable under normal conditions of use, storage and transport.

Chemical stability:

This product is stable at ambient temperatures and atmospheric pressures.

Other:

Hazardous reactions: Conditions to avoid: Incompatible materials:

None determined. Avoid high temperatures. Prevent contact with moisture or incompatible materials. Strong alkaline or acid compounds. Hazardous decomposition products: Metal and sulfur fumes when excessive heat is applied.

#### **11. TOXICOLOGICAL INFORMATION**

Likely	routes	of	exposure:	
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Inhalation, Ingestion, Skin contact, Eye contact

Symptoms/injuries after inhalation:	High concentrations of dust may irrit respiratory system and cause coughir	
Symptoms/injuries after Ingestion:	Harmful if swallowed.	
Symptoms/injuries after skin contact:	Prolonged contact may cause skin irr	itation
Symptoms/injuries after eye contact:	Causes serious eye damage.	
Acute toxicity:	Mixture based on components' toxici	ity.
Reproductive toxicity:	No relevant data found.	
Specific Target Organ Toxicity-S E:	No relevant data found.	
Specific Target Organ Toxicity-R E:	No relevant data found.	
Carcinogenicity:	Not classified.	
NTP (National Toxicology Program):		Not classified.
IARC (International Agency for Research on Cancer):		Not classified.
ACGIH (American Conference of Go	vernmental Industrial Hygienists):	Not classified.

### **12. ECOLOGICAL INFORMATION**

Toxicity:	]
Persistence and degradability:	]
Bioaccumulative potential:	]
Mobility in soil:	]
Other adverse effects:	l

No testing data available. No data is available on the degradability of this product. No data is available. No data is available. No further relevant information available.

# **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods:

Recommend recycling excess product if at all possible. Avoid sewage and landfill disposal. Place contaminated material in suitable, labeled containers for disposal. See section 8 for exposure control information.

# **14. TRANSPORT INFORMATION**

#### DOT:

#### Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.



### **15. REGULATORY INFORMATION**

OSHA Hazard Communication Standard: This product is a "Hazardous Chemical" as defined by the OSHA

Zinc compounds

Serious eye damage; Acute Toxicity (oral)

Yes

Hazard Communication Standard, 29 CFR 1910.1200.

Ingredients listed on TSCA inventory:

CERCLA Section 103 Hazardous Substances:

EPCRA Section 311/312 Hazard Categories:

EPCRA Section 313 Toxic Release Inventory: Zinc compounds

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Micronutrient Approvals / Registrations: California Department of Food and Agriculture (CDFA): Company Registration# 11554

#### **16. OTHER INFORMATION**

Date of preparation/issue date: September 10, 2018-JH Version: Initial release.

Disclaimer: 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. 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.