

## **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

#### Product Name: Frit Manganese 22% Fertilizer

Product Type: Solid granules

Recommended /Restrictions of use: Fertilizer Micronutrient Additive

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

> Distributed By: FRIT SALES CANADA INC. 500-211 19<sup>TH</sup> ST E SASKATOON, SK S7K 5R6 www.fritsalescanada.com Tél: 855-374-8226

#### 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 Hazardous Products Regulation (HPR) as implemented under the Workplace Hazardous Materials Information System (WHMIS 2015).
	STOT-RE – Category 2 Eye irritant – Category 2B Skin irritant – Category 2 STOT-SE – Category 3
Signal word:	Warning
Hazard statements:	May cause damage to organs through prolonged or repeated exposure (H373) Causes eye irritation (H320) Causes skin irritation (H315) May cause respiratory irritation (H335)
Hazard pictograms:	
Precautionary statements: Prevention	Keep out of reach of children. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Do not eat, drink, or smoke when using product.
Response	Get medical advice/attention if you feel unwell. IF SWALLOWED: Call a physician 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 contributing to the classification:

Spill area may be slippery.

Unknown components with acute toxicity:

None.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture

Chemical name/component	CAS#	Concentration
Manganese Sulfate	10034-96-5	> 60 - < 75%
Citric Acid	7-92-9	> 20 - < 35%
Sucrose	57-50-1	> 5 - < 20%

## **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 medi	a: None
Special hazards arising from the	<u>he</u> 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: Incompatible materials: Store in a dry, cool, and well-ventilated area. Protect from weather. Strong alkaline or acid compounds.

#### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure limits are listed below, if they exist:

Component	Regulation	Type of listing	Value/Notation
Dust – inhalable particles	OSHA / ACGIH	TWA	$15 \text{ mg/m}^3 \text{ / } 10 \text{ mg/m}^3$
Dust – respirable particles	OSHA / ACGIH	TWA	$5 \text{ mg/m}^3 / 3 \text{ mg/m}^3$
Manganese compounds	ACGIH / NIOSH	TWA	2 mg/m <sup>3</sup> / 1 mg/m <sup>3</sup>

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,	No specialty PPE requirements beyond those previously identified.
protective clothing or respirators:	



## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid granules	Vapor pressure:	NA
Color:	White	Vapor density:	NA
Odor:	Odorless	Relative density	74 lbs/ft <sup>3</sup>
Odor threshold:	NA	Solubility:	100% soluble in water
pH:	2.1-3.0 at 5% concentration	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:

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Hazardous reactions:	None determined.
Conditions to avoid:	Avoid high temperatures. Prevent contact with moisture or incompatible materials.
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:	Inhalation, Ingestion, Skin contact, E	ye contact
Symptoms/injuries after inhalation:	High concentrations of dust may irrita	
	respiratory system and cause coughin	g.
Symptoms/injuries after Ingestion:	Mixture components not known to be	harmful.
Symptoms/injuries after skin contact:	Causes skin irritation	
Symptoms/injuries after eye contact:	Causes eye irritation.	
Acute toxicity:	Mixture based on components' toxici	ty.
Reproductive toxicity:	No relevant data found.	
Specific Target Organ Toxicity-S E:	May cause respiratory irritation.	
Specific Target Organ Toxicity-R E:	May cause damage to organs through	prolonged or repeated exposure.
Carcinogenicity:	Not classified.	
NTP (National Toxicology Program)		Not classified.
IARC (International Agency for Research on Cancer):		Not classified.
ACGIH (American Conference of Go		Not classified.

## **12. ECOLOGICAL INFORMATION**

Toxicity:	No testing data available.
Persistence and degradability:	No data is available on the degradability of this product.
Bioaccumulative potential:	No data is available.
Mobility in soil:	No data is available.
Other adverse effects:	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**

TDG:

#### 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**

Ingredients listed on TSCA inventory: CERCLA Section 103 Hazardous Substances: EPCRA Section 311/312 Hazard Categories:

Yes

Manganese Compounds

STOT-RE, Eye irritant, Skin irritant, STOT-SE

EPCRA Section 313 Toxic Release Inventory: Manganese Compounds

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

This product contains 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: March 26, 2025 Version: 1.2 Revised: Distributed By Frit

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.