

# Material Safety Data Sheet

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Revision Number 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Sunniland Super Iron Plus

**Recommended Use** Fertilizer.

**Supplier Address**

Sunniland Corporation

P.O. Box 8001

Sanford

Florida

32772

US

Phone:321-832-0458

Contact:Tony Owen

Email:tonyowen@sunnilandcorp.com

Contact Phone407-322-2421

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Product dust may be irritating to eyes, skin and respiratory system

**Appearance** Light gray

**Physical State** Granular, Solid.

**Odor** Mild

**Potential Health Effects**

**Principle Routes of Exposure**

Eye contact. Skin contact.

**Acute Toxicity**

**Eyes**

May cause irritation.

**Skin**

Contact with dust can cause mechanical irritation or drying of the skin.

**Inhalation**

May cause irritation of respiratory tract.

**Ingestion**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic Effects**

Prolonged or repeated contact may dry skin and cause irritation.

**Aggravated Medical Conditions**

None known

**Environmental Hazard**

See Section 12 for additional Ecological Information.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Limestone	1317-65-3	60-100
Ferrous oxide	1345-25-1	10-30
Kieserite	14567-64-7	1 - 5
Manganese(II) sulfate	7785-87-7	1 - 5

#### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
<b>Notes to Physician</b>	Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not flammable.			
<b>Flash Point</b>	Not determined.			
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
<b>Hazardous Combustion Products</b>	Carbon oxides.			
<b>Explosion Data</b>				
<b>Sensitivity to Mechanical Impact</b>	No.			
<b>Sensitivity to Static Discharge</b>	No.			
<b>Protective equipment and precautions for firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
<b>NFPA</b>	Health Hazard 1	Flammability 0	Stability 0	<b>Physical and Chemical Hazards -</b>

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Do not breathe dust.
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system. Prevent product from entering drains.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Cleaning Up</b>	Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Pick up and transfer to properly labeled containers. Avoid generation of dust. Clean contaminated surface thoroughly.

#### 7. HANDLING AND STORAGE

<b>Handling</b>	Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.
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**Storage** Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Limestone 1317-65-3		TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 15 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> respirable dust TWA: 10 mg/m <sup>3</sup> total dust
Manganese(II) sulfate 7785-87-7	TWA: 0.2 mg/m <sup>3</sup> Mn	(vacated) Ceiling: 5 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 500 mg/m <sup>3</sup> Mn TWA: 1 mg/m <sup>3</sup> Mn STEL: 3 mg/m <sup>3</sup> Mn

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH Immediately Dangerous to Life or Health

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Engineering Measures**  
Showers  
Eyewash stations  
Ventilation systems

### Personal Protective Equipment

**Eye/Face Protection**

Wear safety glasses with side shields (or goggles)

**Skin and Body Protection**

Protective gloves.

**Respiratory Protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands and face before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Light gray.	<b>Odor</b>	Mild.
<b>Odor Threshold</b>	No information available	<b>Physical State</b>	Granular Solid
<b>pH</b>	No information available	<b>Autoignition Temperature</b>	No information available
<b>Flash Point</b>	No information available	<b>Boiling point / boiling range</b>	No information available
<b>Decomposition Temperature</b>	No information available	<b>Flammability Limits in Air</b>	No information available
<b>Melting Point/Range</b>	No information available	<b>Solubility</b>	No information available.
<b>Explosion Limits</b>	No information available	<b>Vapor Pressure</b>	No data available
<b>Water Solubility</b>	Very soluble	<b>Partition Coefficient:</b>	0
<b>Evaporation Rate</b>	No information available	<b>n-octanol/water</b>	
<b>Vapor Density</b>	No data available		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible Products</b>	None known.
<b>Conditions to Avoid</b>	Dust formation.
<b>Hazardous Decomposition Products</b>	Carbon oxides.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### **Product Information**

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	May cause irritation.
<b>Skin Contact</b>	May cause irritation
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Chronic Toxicity

<b>Chronic Toxicity</b>	Prolonged or repeated contact may dry skin and cause irritation.
<b>Target Organ Effects</b>	Eyes. Respiratory system. Skin.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal methods</b>	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements. Dispose of contents/containers in accordance with local regulations.
<b>Contaminated Packaging</b>	Dispose of in accordance with local regulations.
<b>California Hazardous Waste Codes</b>	141

## 14. TRANSPORT INFORMATION

<b><u>DOT</u></b>	NOT REGULATED
<b><u>TDG</u></b>	Not regulated
<b><u>MEX</u></b>	Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated



Manganese(II) sulfate		Mexico: TWA 0.2 mg/m <sup>3</sup>
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**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

Non-controlled

Chemical Name	NPRI
Manganese(II) sulfate	X

**16. OTHER INFORMATION**

**Prepared By** Product Stewardship  
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Latham, NY 12110  
1-800-572-6501

**Revision Date** 14-Jan-2014

**Revision Note** No information available.

**General Disclaimer**

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

**End of Safety Data Sheet**