

# Material Safety Data Sheet

## J. R. Simplot Company

### AgriBusiness

Trade Name: Best Super Iron® Plant Food  
 Registration No: None

M7409944

#### SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

**Manufacturer or Formulator:** J.R. Simplot Company  
 P.O. Box 70013  
 Boise, ID 83707  
 (208) 336-2110  
 1-800-424-9300

**Product Name:** Best Super Iron® Plant Food  
**Common Name:** Best Super Iron® Plant Food  
**Chemical Type:** Micronutrient  
**Recommended use/Restrictions:** Plant nutrient/Industrial use: Refer to product label for use/restrictions

**Emergency Phone - Chemtrec:** 1-800-424-9300

#### SECTION 2 HAZARD IDENTIFICATION

GHS Classification: Acute Toxicity: \_\_4\_\_: Acute Toxicity, dermal: \_\_5\_\_ Skin Irritation: \_\_3\_\_: Eye Effects: \_\_2A\_\_

Pictogram(s):



**Signal Word:** WARNING  
**Hazard Statement:** Harmful if swallowed. May be harmful in contact with skin. May cause serious eye irritation.  
**Precautionary Statement(s):** Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves, clothing, and eye protection/face protection. If swallowed call a POISON CENTER/doctor/...if you feel unwell. If on skin or if in eyes get medical advice/attention. If on skin irritation occurs get medical advice/attention. If eye persist remove contact lenses, if present and easy to do. Continue to rinse cautiously with water for several minutes

**Other Hazard(s):** Dust inhalation

#### SECTION 3 COMPOSITION INFORMATION

This product contains a homogenous blend of the following ingredients:

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT%
Ingredients:			
Ammonium Sulfate	7783-20-2	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	
Monoammonium Phosphate	7722-76-1	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	
Iron Oxysulfate	--	--	
Sulfate of Potash	7778-80-5	K <sub>2</sub> SO <sub>4</sub>	
Wax	--		

\*ingredients without WT% are considered proprietary based on trade secrets

#### SECTION 4 FIRST AID MEASURES

**Ingestion:** Minimal hazard under normal use. Ingestion of large quantities may cause gastrointestinal discomfort, vomiting, weakness or other medically related problems. Give large quantities of water and induce vomiting. Call doctor

**Inhalation:** Excess dust may cause respiratory discomfort. Possible chronic toxic effects may result from long term inhalation of dust. Remove to fresh air. Seek medical attention if condition persists.

**Eyes:** Dust from product may cause a moderate to severe discomfort to eyes. Flush eyes with running water for at least 15 minutes. Seek medical attention if condition persists.

**Skin:** Prolonged exposure may cause slight to mild skin abrasion especially around cuffs and collars. Wash with soap and water. Seek medical attention if condition persists.

**Notes to Physician:** Consult standard literature. Treatment based on the sound judgment of the physician and the individual reactions of the patient.

#### SECTION 5 FIRE FIGHTING MEASURES

**Extinguishing Media:** Use media suitable to extinguish source of fire.

**Special Fire Fighting Procedures:** Approach fire from upwind. Wear self-contained breathing apparatus in enclosed areas. Use water spray to cool fire exposed surfaces and to knock down hazardous fumes.

**Unusual Fire and Explosion Hazards:** When heated to decomposition, may emit hazardous fumes of SO<sub>x</sub> and ZnO.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

**Personal Protection Precautions,**  
**Equipment and Emergency Procedures:** Wash hands after handling. Wear eye and face protection. Rinse thoroughly with water for 15 minutes and get medical attention if irritation continues.

**Environmental Precautions:** Keep out of water supplies, lakes, ponds, streams and rivers. This product is a fertilizer and may promote algae growth.

**Clean up methods:** Keep from entering waterways. Sweep up material and place in suitable container for use as a fertilizer or for disposal.

#### SECTION 7 HANDLING AND STORAGE

**Precautions to be taken in handling and storing:**  
 Store in a cool, dry area. Mildly corrosive to copper, brass, alloys and metals. Keep out of reach of children.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name and Synonyms	TLV	PEL
Ammonium Sulfate	10mg/m <sup>3</sup> Nuisance Dust	15 mg/m <sup>3</sup> Nuisance Dust
Monoammonium Phosphate		
Iron Oxysulfate		
Sulfate of Potash		
Wax		

**Engineering controls:** Use process enclosures, general dilution ventilation or local exhaust systems where necessary to maintain fugitive dust emissions below OSHA standards or in accordance with applicable regulations

**Ventilation Protection:** Adequate ventilation.

**Respiratory Protection:** Approved dust respirator when necessary.

**Protective Clothing:** Gloves as needed

**Eye Protection:** Safety glasses or goggles

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point:	Not applicable	Solubility in Water:	Soluble
Density:	75 lbs/ft <sup>3</sup>	% Volatiles (by volume):	Not applicable
Flashpoint:	Non-flammable	Vapor Pressure, mm Hg:	Not applicable
Flammability:	Non-flammable	Partition Coefficient:	Not listed
Upper/Lower Flammability or Explosive limit:	Not applicable	Odor:	Not listed
Autoignition Temperature:	Not applicable	Odor Threshold:	Not listed
Decomposition Temperature:	Not listed	Melting Point:	Not listed
pH:	6.1 – 6.2	Reaction with Water:	None
Appearance:	Gray colored granules	Evaporation:	Not listed
Vapor Density:	Not listed	Relative Density:	Not listed

**SECTION 10 STABILITY AND REACTIVITY**

Chemical Stability (Normal Conditions):	Stable
Reactivity (Normal Conditions):	Stable
Conditions to Avoid:	Extremely high temperatures.
Incompatibility (Material to Avoid):	Mildly corrosive to copper, brass, alloys and metals.
Hazardous Decomposition Products:	When heated to decomposition, may emit hazardous fumes of SO <sub>x</sub> and ZnO.
Hazardous Polymerization:	Will not occur

**SECTION 11 TOXICOLOGY INFORMATION**

	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rat)</u>	<u>Inhalation (rat)</u>
Ammonium Sulfate	640-4,250 mg/kg	> 2,000 mg/kg	
Monoammonium Phosphate	> 2,000 mg/kg	> 5,000 mg/kg	
Sulfate of Potash	6,600 mg/kg	none listed	

Symptoms: Related to Physical, chemical, and toxicology characteristics.  
Delayed, immediate, and chronic effects (short and long term exposure):

Carcinogenicity: by IARC?: Yes ( ) No (X) by NTP?: Yes ( ) No (X)

**SECTION 12 ECOLOGICAL INFORMATION**

Keep away from bodies of water.

**SECTION 13 DISPOSAL CONSIDERATIONS**

Waste Disposal Procedures: Pick up with a shovel and broom and use as a fertilizer by applying to soil using good agricultural practices and soil management.

**SECTION 14 TRANSPORT INFORMATION**

Shipping name:	Not regulated by DOT	C.A.S. Number:	See "Ingredients"
Hazard Class:	None	D.O.T. Number:	None
Reportable Quantity (RQ):	None	Haz Waste No:	None
Labels Required:	None	EPA Regist No:	None
Placard:	None		

**SECTION 15 REGULATORY INFORMATION**

TSCA: Yes (X) No ( ), SARA: Yes ( ) No (X), Prop 65: Yes ( ) No ( ), CERCLA: Yes ( ) No ( )

Not on the 302 list of SARA reportable quantities.

**SECTION 16 OTHER INFORMATION**

MSDS Version Number: 2 02/07/14 (GHS Format)

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Reviewed by: The Environmental Health & Safety Department  
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