



**VOLUNTARY PURCHASING GROUPS, INC.**

## **Safety Data Sheet**

### **Hi-Yield Iron Plus Soil Acidifier Fertilizer 11-0-0**

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#### **SECTION 1: Identification**

##### **GHS Product identifier**

Product name Hi-Yield Iron Plus Soil Acidifier Fertilizer 11-0-0  
Product number 34257; 34260  
Brand Hi-Yield

##### **Other means of identification**

NPK 11-0-0

##### **Recommended use of the chemical and restrictions on use**

Fertilizer

##### **Supplier's details**

Name Voluntary Purchasing Groups, Inc.  
Address 230 FM 87  
Bonham TX 75418  
USA

Telephone 855-270-4776

##### **Emergency phone number**

In the event of a medical or chemical emergency contact ChemTel, Inc.  
North American 1-800-255-3924 or worldwide Intl. + 01-813-248-0585

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#### **SECTION 2: Hazard identification**

##### **General hazard statement**

GHS label elements, including precautionary statements  
No labeling applicable

Other hazards which do not result in classification  
No additional information available

##### **Classification of the substance or mixture**

Not a hazardous substance or mixture.

##### **GHS label elements, including precautionary statements**

Not a hazardous substance or mixture.

# Safety Data Sheet

## Hi-Yield Iron Plus Soil Acidifier Fertilizer 11-0-0

### Other hazards which do not result in classification

Not a hazardous substance or mixture.

## SECTION 3: Composition/information on ingredients

### Mixtures

#### Hazardous components

Component	Concentration
<b>Ammonium sulfate (CAS no.: 7783-20-2)</b>	<b>40 - 60 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Iron (III) oxide (CAS no.: 1309-37-1)</b>	<b>13 - 30 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Ferrous sulfate (CAS no.: 7720-78-7)</b>	<b>1 - 6 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Manganese (II) oxide (CAS no.: 1344-43-0)</b>	<b>0.2 - 2 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Manganese (II) sulfate (CAS no.: 7785-87-7; EC no.: 232-089-9; Index no.: 025-003-00-4)</b>	<b>0.2 - 1.2 %</b>
CLASSIFICATIONS: Specific target organ toxicity, repeated exposure, Cat. 2; Hazardous to the aquatic environment, long-term (chronic), Cat. 2. HAZARDS: H373 - May cause damage to organs [organs] through prolonged or repeated exposure [route]; H411 - Toxic to aquatic life with long lasting effects.	
<b>Zinc oxide (CAS no.: 1314-13-2; EC no.: 215-222-5; Index no.: 030-013-00-7)</b>	<b>0.4 - 2 %</b>
CLASSIFICATIONS: Hazardous to the aquatic environment, short-term (acute), Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 1. HAZARDS: H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects.	
<b>Zinc sulfate (CAS no.: 7733-02-0; EC no.: 231-793-3; Index no.: 030-006-00-9)</b>	<b>0.2 - 1.2 %</b>
CLASSIFICATIONS: Acute toxicity, Cat. 4; Serious eye damage/eye irritation, Cat. 1; Hazardous to the aquatic environment, short-term (acute), Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 1. HAZARDS: H302 - Harmful if swallowed; H318 - Causes serious eye damage; H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects.	
<b>Calcium oxide (CAS no.: 1305-78-8)</b>	<b>0.2 - 2 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Gypsum (CAS no.: 13397-24-5)</b>	<b>1 - 4 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Silica (CAS no.: 7631-86-9)</b>	<b>0.4 - 2 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

## SECTION 4: First-aid measures

### Description of necessary first-aid measures

General advice	Call a poison control center or doctor for treatment advice. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur, seek medical attention immediately.
If inhaled	Move person to fresh air. If person is not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a poison control center or doctor for treatment advice.
In case of skin contact	Wash skin with soap and plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
In case of eye contact	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.

# Safety Data Sheet

## Hi-Yield Iron Plus Soil Acidifier Fertilizer 11-0-0

Call a poison control center or doctor for treatment advice.

If swallowed

Do not induce vomiting.  
Never give anything by mouth to an unconscious person.  
Call a poison control center or doctor for treatment advice.

Personal protective equipment for first-aid responders

Respiratory Protection: NIOSH/MSHA approved for protection against toxic dusts containing quartz.  
Ventilation: General or local exhaust to maintain employee exposure below the TLV/PEL.  
Protective Gloves: PVC or Neoprene.  
Eye Protection: Safety glasses or goggles (ANSI Z87.1 1979)  
Other Protective Clothing or Equipment: Apron, boots, long sleeved shirt and full-length pants may be worn when necessary to prevent skin contact.  
Eye wash and shower facilities should be available.

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### SECTION 5: Fire-fighting measures

#### Suitable extinguishing media

Dry Chemical, Carbon Dioxide, Water Spray, or Regular Foam

#### Specific hazards arising from the chemical

No acute hazard.

#### Special protective actions for fire-fighters

Avoid breathing vapors or dust. Keep upwind.

Wear pressure-demand, self-contained breathing apparatus, (MSHA/NIOSH) approved or equivalent, and full protective gear.

#### Further information

Melts and decomposes at 445°F with emission of ammonia and sulfur trioxide.

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### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Respiratory Protection: NIOSH/MSHA approved for protection against toxic dusts containing quartz.

Ventilation: General or local exhaust to maintain employee exposure below the TLV/PEL.

Protective Gloves: PVC or Neoprene.

Eye Protection: Safety glasses or goggles (ANSI Z87.1 1979)

Other Protective Clothing or Equipment: Apron, boots, long sleeved shirt and full-length pants may be worn when necessary to prevent skin contact.

#### Environmental precautions

Avoid the generation of dusts. Prevent release to sewers or waterways in accordance with all applicable federal, state, and local environmental regulations.

#### Methods and materials for containment and cleaning up

Sweep up, vacuum the material and transfer to the original container, or to a sealed, labeled container.

Residue may be washed away with water.

Dispose of in accordance with Federal, State, and local regulations

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### SECTION 7: Handling and storage

#### Precautions for safe handling

# Safety Data Sheet

## Hi-Yield Iron Plus Soil Acidifier Fertilizer 11-0-0

Store material in a dry area.

### Conditions for safe storage, including any incompatibilities

Separate from strong oxidizers.

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## SECTION 8: Exposure controls/personal protection

### Control parameters

#### 1. Iron oxide (CAS: 1309-37-1)

PEL (Inhalation): 10 (fume) mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 5 mg/m<sup>3</sup> (fume) (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 5 mg/m<sup>3</sup> (dust and fume) (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### 2. Zinc oxide fume (CAS: 1314-13-2)

PEL (Inhalation): 5 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 5 mg/m<sup>3</sup>, (ST) 10 mg/m<sup>3</sup> (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 5 mg/m<sup>3</sup>, (ST) 10 mg/m<sup>3</sup> (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### 3. Zinc oxide (CAS: 1314-13-2)

PEL (Inhalation): See PNOR (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### 4. Zinc oxide, total dust (CAS: 1314-13-2)

PEL (Inhalation): 15 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 10 mg/m<sup>3</sup> (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 5 mg/m<sup>3</sup>, (C) 15 mg/m<sup>3</sup> (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### 5. Zinc oxide, respirable fraction (CAS: 1314-13-2)

PEL (Inhalation): 5 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 5 mg/m<sup>3</sup> (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### 6. Calcium oxide (CAS: 1305-78-8)

PEL (Inhalation): 5 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 2 mg/m<sup>3</sup> (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 2 mg/m<sup>3</sup> (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### 7. Gypsum (CAS: 13397-24-5)

PEL (Inhalation): PNOR (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### 8. Gypsum, total dust (CAS: 13397-24-5)

# Safety Data Sheet

## Hi-Yield Iron Plus Soil Acidifier Fertilizer 11-0-0

PEL (Inhalation): 15 mg/m<sup>3</sup> (OSHA)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 10 mg/m<sup>3</sup> (Cal/OSHA)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 10 mg/m<sup>3</sup> (NIOSH)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 9. Gypsum, respirable fraction (CAS: 13397-24-5)

PEL (Inhalation): 5 mg/m<sup>3</sup> (OSHA)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 5 mg/m<sup>3</sup> (Cal/OSHA)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 5 mg/m<sup>3</sup> (NIOSH)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### Appropriate engineering controls

Ventilation: General or local exhaust to maintain employee exposure below the TLV/PEL.

### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Safety glasses or goggles (ANSI Z87.1 1979)

#### Skin protection

PVC or Neoprene gloves

#### Body protection

Apron, boots, long sleeved shirt and full-length pants may be worn when necessary to prevent skin contact.  
Eye wash and shower facilities should be available.

#### Respiratory protection

NIOSH/MSHA approved for protection against toxic dusts.

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## SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Reddish colored granules
Odor	odorless
Odor threshold	
pH	
Melting point/freezing point	>455°F
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	
Solubility(ies)	Yes
Partition coefficient: n-octanol/water	None
Auto-ignition temperature	
Decomposition temperature	
Viscosity	

### Additional properties

# Safety Data Sheet

## Hi-Yield Iron Plus Soil Acidifier Fertilizer 11-0-0

Physical state  
Color

Solid  
Reddish colored

**Further safety characteristics (supplemental)**

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### SECTION 10: Stability and reactivity

#### Reactivity

Yes

#### Chemical stability

Yes

#### Possibility of hazardous reactions

Polymerization will not occur.

#### Conditions to avoid

N/A

#### Incompatible materials

Ammonium Nitrate, Potassium or Sodium-Potassium Alloy, Potassium Chlorate, Potassium Nitrite, Strong Oxidizers.

#### Hazardous decomposition products

Melts and decomposes at 445°F with emission of ammonia and sulfur trioxide.

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### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

Medical Conditions Generally Aggravated by Exposure: Disorders of respiratory system, dermatitis or other skin disorders.

##### Skin corrosion/irritation

Skin contact may result in local irritation.

##### Serious eye damage/irritation

Eye contact may result in local irritation.

##### Respiratory or skin sensitization

Inhalation of high concentrations may result in upper respiratory tract irritation.

Inhalation of dust may permanently damage the lungs and result in the development of pneumoconiosis, silicosis, or other respiratory disorders.

Ingestion of large quantities may cause symptoms of non-specific irritation of the gastrointestinal tract; nausea, vomiting, cramps, and diarrhea.

##### Germ cell mutagenicity

No data available.

##### Carcinogenicity

No data available.

##### Reproductive toxicity

No data available.

# Safety Data Sheet

## Hi-Yield Iron Plus Soil Acidifier Fertilizer 11-0-0

**Specific target organ toxicity (STOT) - single exposure**  
No data available.

**Specific target organ toxicity (STOT) - repeated exposure**  
No data available.

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### SECTION 12: Ecological information

**Toxicity**  
None Expected

**Persistence and degradability**  
No data available.

**Mobility in soil**  
No data available.

**Results of PBT and vPvB assessment**  
No data available.

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### SECTION 13: Disposal considerations

#### Disposal methods

#### Product disposal

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

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### SECTION 14: Transport information

**DOT (US)**  
Not regulated:

**IMDG**  
Not regulated

**IATA**  
Not regulated

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### SECTION 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

**Pennsylvania Right To Know Components**  
Chemical name: Sulfuric acid diammonium salt  
CAS number: 7783-20-2

**New Jersey Right To Know Components**  
Common name: Iron oxide  
CAS number: 1309-37-1

**Pennsylvania Right To Know Components**  
Chemical name: Iron oxide

# Safety Data Sheet

## Hi-Yield Iron Plus Soil Acidifier Fertilizer 11-0-0

CAS number: 1309-37-1

### Massachusetts Right To Know Components

Chemical name: Ferrous sulfate

CAS number: 7720-78-7

### New Jersey Right To Know Components

Common name: Ferrous sulfate

CAS number: 7720-78-7

### Pennsylvania Right To Know Components

Chemical name: Sulfuric acid, iron(2+) salt (1:1)

CAS number: 7720-78-7

### Massachusetts Right To Know Components

Chemical name: Zinc oxide

CAS number: 1314-13-2

### New Jersey Right To Know Components

Common name: Zinc oxide

CAS number: 1314-13-2

### Pennsylvania Right To Know Components

Chemical name: Zinc oxide

CAS number: 1314-13-2

### Massachusetts Right To Know Components

Chemical name: Zinc sulfate

CAS number: 7733-02-0

### New Jersey Right To Know Components

Common name: Zinc sulfate

CAS number: 7733-02-0

### Pennsylvania Right To Know Components

Chemical name: Sulfuric acid, zinc salt (1:1)

CAS number: 7733-02-0

### New Jersey Right To Know Components

Common name: Calcium oxide

CAS number: 1305-78-8

### Pennsylvania Right To Know Components

Chemical name: Calcium oxide

CAS number: 1305-78-8

### New Jersey Right To Know Components

Common name: Gypsum

CAS number: 13397-24-5

### Pennsylvania Right To Know Components

Chemical name: Gypsum.2h20)

CAS number: 13397-24-5

### Pennsylvania Right To Know Components

Chemical name: Silica

CAS number: 7631-86-9

### HMIS Rating

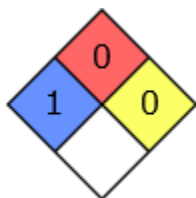
Hi-Yield Iron Plus Soil Acidifier Fertilizer 11-0-0	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

# Safety Data Sheet

## Hi-Yield Iron Plus Soil Acidifier Fertilizer 11-0-0

PERSONAL PROTECTION

### NFPA Rating



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## SECTION 16: Other information

No data available.

### Further information/disclaimer

Voluntary Purchasing Groups, Inc. urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.