



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield Iron Plus Soil Acidifier Fertilizer 11-0-0

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

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.

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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
Ammonium sulfate (CAS no.: 7783-20-2)	40 - 60 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Iron (III) oxide (CAS no.: 1309-37-1)	13 - 30 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Ferrous sulfate (CAS no.: 7720-78-7)	1 - 6 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Manganese (II) oxide (CAS no.: 1344-43-0)	0.2 - 2 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Manganese (II) sulfate (CAS no.: 7785-87-7; EC no.: 232-089-9; Index no.: 025-003-00-4)	0.2 - 1.2 %
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.	
Zinc oxide (CAS no.: 1314-13-2; EC no.: 215-222-5; Index no.: 030-013-00-7)	0.4 - 2 %
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.	
Zinc sulfate (CAS no.: 7733-02-0; EC no.: 231-793-3; Index no.: 030-006-00-9)	0.2 - 1.2 %
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.	
Calcium oxide (CAS no.: 1305-78-8)	0.2 - 2 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Gypsum (CAS no.: 13397-24-5)	1 - 4 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Silica (CAS no.: 7631-86-9)	0.4 - 2 %
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.

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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.

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.

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

SECTION 7: Handling and storage

Precautions for safe handling

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Store material in a dry area.

Conditions for safe storage, including any incompatibilities

Separate from strong oxidizers.

SECTION 8: Exposure controls/personal protection

Control parameters

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

PEL (Inhalation): 10 (fume) mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 5 mg/m³ (fume) (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 5 mg/m³ (dust and fume) (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

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

PEL (Inhalation): 5 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 5 mg/m³, (ST) 10 mg/m³ (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 5 mg/m³, (ST) 10 mg/m³ (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

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

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

OSHA Annotated Table Z-1, www.osha.gov

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

PEL (Inhalation): 15 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 10 mg/m³ (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 5 mg/m³, (C) 15 mg/m³ (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

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

PEL (Inhalation): 5 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 5 mg/m³ (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

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

PEL (Inhalation): 5 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 2 mg/m³ (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 2 mg/m³ (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

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

PEL (Inhalation): PNOR (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

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

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PEL (Inhalation): 15 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 10 mg/m³ (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 10 mg/m³ (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

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

PEL (Inhalation): 5 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 5 mg/m³ (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 5 mg/m³ (NIOSH)
OSHA Annotated Table Z-1, 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.

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

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Physical state
Color

Solid
Reddish colored

Further safety characteristics (supplemental)

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.

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.

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

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

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.

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.

SECTION 14: Transport information

DOT (US)
Not regulated:

IMDG
Not regulated

IATA
Not regulated

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

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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

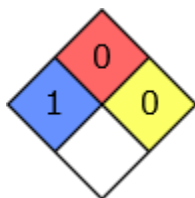
Hi-Yield Iron Plus Soil Acidifier Fertilizer 11-0-0	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

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PERSONAL PROTECTION

NFPA Rating



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.