



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet

Ferti-lome Lawn Food Plus Iron 28-4-4

SECTION 1: Identification

GHS Product identifier

Product name	Ferti-lome Lawn Food Plus Iron 28-4-4
Product number	10756; 10757
Brand	Ferti-lome

Other means of identification

NPK 28-4-4

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
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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

Classification of the substance or mixture

Not classified

GHS label elements, including precautionary statements

No labeling applicable

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

No additional information available

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SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Urea (CAS no.: 57-13-6; Index no.: 800180)	40 - 50 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Xcu coated urea (CAS no.: 57-13-6)	5 - 10 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Ammonium sulfate (CAS no.: 7783-20-2)	5 - 10 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Potassium chloride (CAS no.: 7447-40-7)	5 - 10 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Sodium chloride (CAS no.: 7647-14-5)	0.0258 - 0.05 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Iron (III) oxide (CAS no.: 1309-37-1)	3.25 - 7.5 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Ferrous sulfate (CAS no.: 7720-78-7)	0.25 - 1.5 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Manganese (II) oxide (CAS no.: 1344-43-0)	0.05 - 0.5 %
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)	0.05 - 0.3 %
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)	0.1 - 0.5 %
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)	0.05 - 0.3 %
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)	0.05 - 0.5 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Gypsum (CAS no.: 13397-24-5)	0.25 - 1 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Silica (CAS no.: 7631-86-9)	0.1 - 0.5 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Calcium sulfate (CAS no.: 7778-18-9)	2 - 3.5 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Sulfuric acid, iron(2+) salt 1:1, monohydrate (CAS no.: 17375-41-6)	0.5 - 1.5 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Manganese (II) sulfate monohydrate (CAS no.: 10034-96-5)	0.15 - 0.35 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Zinc sulfate, monohydrate (CAS no.: 7446-19-7)	0.25 - 0.5 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Copper sulfate pentahydrate (CAS no.: 7758-99-8)	0.25 - 0.5 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Borates, tetra, sodium salts, pentahydrate (CAS no.: 12179-04-3)	0.05 - 0.25 %
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.

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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. 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.

Most important symptoms/effects, acute and delayed

Causes eye irritation.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Foam, Water, Dry Chemical, or Carbon Dioxide

Specific hazards arising from the chemical

Decomposes upon heating to liberate ammonia. Avoid dispersion of dust in air to reduce potential explosion hazard.

Special protective actions for fire-fighters

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

Avoid inhalation of fumes and dusts.

Further information

Primary Routes of Exposure and Target Organs: Skin contact, inhalation, eye contact, ingestion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

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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

Store in a cool, dry place, ventilated and out of direct sunlight.

Conditions for safe storage, including any incompatibilities

Corrosive to cast iron and aluminum.

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

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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)

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

10. Calcium sulfate (CAS: 7778-18-9)

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

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

11. Calcium sulfate, total dust (CAS: 7778-18-9)

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

12. Calcium sulfate, respirable fraction (CAS: 7778-18-9)

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.

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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 containing quartz.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Various colors/ small granules
Odor	slight chlorine
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not applicable
Flash point	Not available
Evaporation rate	Not applicable
Flammability (solid, gas)	Will not evolve flammable or toxic gases
Upper/lower flammability or explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not applicable
Relative density	Not available
Solubility(ies)	Appreciable
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

Additional properties

Physical state	Solid
Color	Various colors
Explosive properties	Not available
Oxidizing properties	Not available

Further safety characteristics (supplemental)

Specific Gravity 0.5.

SECTION 10: Stability and reactivity

Reactivity

Stable

Chemical stability

Stable

Possibility of hazardous reactions

Hazardous Polymerization: May occur

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Conditions to avoid

Decomposes upon heating; Avoid heating or direct exposure to sunlight.

Incompatible materials

Strong oxidizers and alkalis

Hazardous decomposition products

Ammonia, phosphorous oxides, sulfur oxides, cyanuric acid, cyanic acid and carbon dioxide.

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

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

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Specific target organ toxicity (STOT) - single exposure

No data available.

Specific target organ toxicity (STOT) - repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

Other Exposure Limits:

ACGIH TLV for nuisance dusts = 10 mg/m³

OSHA PEL for nuisance dusts = 15mg/m³

NTP: No IARC: No OSHA: No

SECTION 12: Ecological information

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Toxicity

None Expected

Persistence and degradability

No data available.

Bioaccumulative potential

This material shows no bioaccumulation effect or food chain concentration toxicity

Mobility in soil

Minimal mobility in soil.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

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

New Jersey Right To Know Components

Common name: Calcium sulfate

CAS number: 7778-18-9

Pennsylvania Right To Know Components

Chemical name: Calcium sulfate

CAS number: 7778-18-9

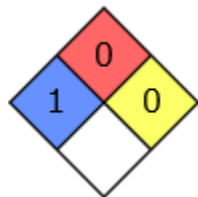
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HMIS Rating

Ferti-lome Lawn Food Plus Iron 28-4-4	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

NFPA Rating



SECTION 16: Other information

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.