



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Ferti-lome Chelated Liquid Iron

SECTION 1: Identification

Product identifier

Product name Ferti-lome Chelated Liquid Iron
Product number 10625; 10630; 10635
Brand Ferti-lome

Recommended use of the chemical and restrictions on use

Residential 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(s)

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

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Acute toxicity, oral, Cat. 4
- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2A

GHS label elements, including precautionary statements

Pictogram



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Hazard statement(s)

H302 Harmful if swallowed
 H315 Causes skin irritation
 H319 Causes serious eye irritation

Precautionary statement(s)

P264 Wash hands thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P301+P312 IF SWALLOWED: Call a POISON CENTER /doctor if you feel unwell.
 P330 Rinse mouth.
 P501 Dispose of contents/container to in accordance with Federal, State and local regulations.
 P280 Wear protective gloves/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P321 Specific treatment (see ... on this label).
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/attention.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Iron(II) sulfate heptahydrate (CAS no.: 7782-63-0; EC no.: 231-753-5; Index no.: 026-003-01-4)	10 - 35 % (weight)*
CLASSIFICATIONS: Acute toxicity, oral, Cat. 4; Skin corrosion/irritation, Cat. 2; Serious eye damage/eye irritation, Cat. 2. HAZARDS: H302 - Harmful if swallowed; H315 - Causes skin irritation; H319 - Causes serious eye irritation.	
Zinc sulfate monohydrate (CAS no.: 7446-19-7)	1 - 5 % (weight)*
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Copper(II) sulfate pentahydrate (CAS no.: 7758-99-8; EC no.: 231-847-6; Index no.: 029-023-00-4)	1 - 5 % (weight)*
CLASSIFICATIONS: Acute toxicity, oral, Cat. 4; Eye damage/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.	
Manganese (II) Sulfate (CAS no.: 7785-87-7; EC no.: 232-089-9; Index no.: 025-003-00-4)	1 - 5 % (weight)*
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.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves.

If inhaled Move to fresh air. Call a physician if symptoms develop or persist.

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In case of skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

In case of eye contact Rinse with water. Get medical attention if irritation develops and persists.

If swallowed Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

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

Provide general supportive measures and treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Copper(II) sulfate pentahydrate: Sulphur oxides, Copper oxides

Special protective actions for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep out of low areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/ aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains or water courses.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

SECTION 7: Handling and storage

Precautions for safe handling

Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

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Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials.

Specific end use(s)
Residential fertilizer

SECTION 8: Exposure controls/personal protection

Control parameters

1. Copper(II) sulfate pentahydrate (CAS: 7758-99-8 EC: 231-847-6)
REL-TWA (Inhalation): 1 mg/m³ (NIOSH)

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

Pictograms



Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Green - Liquid
Odor	Slight Acid
Odor threshold	
pH	<2.5
Melting point/freezing point	
Initial boiling point and boiling range	
Flash point	
Evaporation rate	
Flammability (solid, gas)	
Upper/lower flammability limits	
Vapor pressure	
Vapor density	
Relative density	1.14 @ 68°F
Solubility(ies)	100% Soluble in Water
Partition coefficient: n-octanol/water	
Auto-ignition temperature	
Decomposition temperature	
Viscosity	
Explosive properties	
Oxidizing properties	

SECTION 10: Stability and reactivity

Chemical stability

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Stabel under normal conditions.

Conditions to avoid

Extreme heat may cause product to decompose, producing toxic fumes of sulfur oxides.

Incompatible materials

Powdered metals, Anhydrous copper(II) sulfate, reacts violently with: hydroxylamine, Magnesium.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Ferrous sulfate heptahydrate

LD50 Oral - Mouse - 1,520 mg/kg

SECTION 12: Ecological information

Other adverse effects

Dangerous to aquatic life in high concentrations. May promote eutrophication in waterways. Iron is stable in the environment. Its movement in the soil depends upon the exact compound, the pH the soil type, and the salinity. All work practices should be aimed at elimination any environmental contamination.

SECTION 13: Disposal considerations

Disposal of the product

Waste liquid should be cautiously diluted with water and neutralized with an alkali (lime-soda ash). Neutralized waste much be disposed of in accordance with applicable disposal regulations.

Other disposal recommendations

EPA WASTE NUMBER: D002, for wastes consisting of this product, IF pH is below 2.0.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

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

Massachusetts Right To Know Components

Chemical name: Ferrous sulfate

CAS number: 7782-63-0

Pennsylvania Right To Know Components

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Ferti-lome Chelated Liquid Iron

Chemical name: Ferrous sulfate

CAS number: 7782-63-0

Massachusetts Right To Know Components

Chemical name: Cupric sulfate

CAS number: 7758-98-7

New Jersey Right To Know Components

Chemical name: Cupric sulfate

CAS number: 7758-98-7

Pennsylvania Right To Know Components

Chemical name: Cupric sulfate

CAS number: 7758-98-7

NFPA Rating



SECTION 16: Other information