



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Ferti-lome® Soil Acidifier Plus Iron

SECTION 1: Identification

GHS Product identifier

Product name Ferti-lome® Soil Acidifier Plus Iron

Product number 10660; 10665

Recommended use of the chemical and restrictions on use

Micronutrient supplement

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

Harmful if swallowed
May be harmful in contact with skin
Causes skin irritation
Causes serious eye irritation
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects
Keep out of reach of children.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid release to the environment.

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2012)

GHS label elements, including precautionary statements

Pictograms

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Signal word

Danger

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)	Not specified
CLASSIFICATIONS: Acute toxicity, oral, Cat. 4; Skin corrosion/irritation, Cat. 2; Eye damage/irritation, Cat. 2A. HAZARDS: H302 - Harmful if swallowed; H315 - Causes skin irritation; H319 - Causes serious eye irritation. [SCLs/M-factors/ATEs]: Skin Irrit. 2; H315: C ≥ 25 %	
Magnesium sulfate solution (CAS no.: 10034-99-8)	Not specified
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Copper sulfate pentahydrate (CAS no.: 7758-99-8)	Not specified
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Zinc sulfate solution (CAS no.: 7733-02-0; EC no.: 231-793-3; Index no.: 030-006-00-9)	Not specified
CLASSIFICATIONS: Acute toxicity, 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.	

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. 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.

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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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Sulphur oxides, Iron oxides.

Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Avoid breathing dust.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

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.

Environmental precautions

Very toxic to aquatic life with long lasting effects.

Methods and materials for containment and cleaning up

Use an absorbent material to contain spill and sweep or shovel into a

labeled container for disposal. 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.

Store away from food, feed and seed and out of reach from children and animals.

Conditions for safe storage, including any incompatibilities

Handle in accordance with good industrial hygiene and safety practice.

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SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. 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 with side-shields.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use a particle respirator. For higher level protection use type, wear NIOSH approved air-purifying respirator with cartridges/canisters.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Light blue liquid
Odor	Acidic
Odor threshold	No information available
pH	No information available
Melting point/freezing point	No information available
Initial boiling point and boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Solubility(ies)	Miscible
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available
Additional properties	
Physical state	Liquid
Color	Light Blue

SECTION 10: Stability and reactivity

Chemical stability

Stable

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Possibility of hazardous reactions

POLYMERIZATION will not occur.

Conditions to avoid

High temperatures

Incompatible materials

Phosphorus, maleic anhydride, oxidizing agents.

Hazardous decomposition products

Sulfur oxides and magnesium oxides.

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 information available.

Carcinogenicity

No information available.

Reproductive toxicity

No information available.

Specific target organ toxicity (STOT) - single exposure

No information available.

Specific target organ toxicity (STOT) - repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION 12: Ecological information

Toxicity

Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

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Disposal methods

Product disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Packaging disposal

Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues.

Waste treatment

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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 Toxic Use Reduction Act (TURA) list

Chemical name: Ferrous sulfate (heptahydrate)

CAS number: 7782-63-0

TRI listing: unlisted; CERCLA listing: X-reportable; TURA-only listing: no; LHS/HHS/PBT status: LHS-Lower Hazard Status; de minimis concentration threshold: 1 percent. Qualifiers/definitions: Lower Hazard Substance. No chemical fee is charged for this chemical. Changes: CERCLA Chemical added RY1993. Lower Hazard Substance RY2010.

Pennsylvania Right To Know Components

Chemical name: Ferrous sulfate

CAS number: 7782-63-0

Listing note: E-environmental hazard.

Massachusetts Right To Know Components (105 CMR 670)

Chemical name: Ferrous sulfate (heptahydrate)

CAS number: 7782-63-0

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Asterisk: no; Refs: F8

Water hazard class (WGK, Germany)

Chemical name: Copper sulfate pentahydrate, cas number: 7758-99-8
WGK hazard class: WGK 3 - Extremely hazardous to water

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
Listing note: E-environmental hazard.

Massachusetts Toxic Use Reduction Act (TURA) list

Chemical name: Zinc sulfate
CAS number: 7733-02-0

TRI listing: unlisted; CERCLA listing: C-reportable as a chemical category; TURA-only listing: no; de minimis concentration threshold: 1 percent. Qualifiers/definitions: Report as part of Zinc Compounds category, DEP CODE 1039. Do not report as an individual chemical. Changes: Never individually reportable CERCLA chemical added RY1993. Included in the amount reported for the Zinc Compounds category from RY1990 on per 1992 DEP policy codified into regulation in 2010 that individually listed CERCLA substances be reported as part of applicable TRI category(ies) rather than as individual chemicals.

US EPA TSCA public inventory

Chemical name: Sulfuric acid, zinc salt (1:1)
CAS number: 7733-02-0

Massachusetts Right To Know Components (105 CMR 670)

Chemical name: Zinc sulfate
CAS number: 7733-02-0
Asterisk: no; Refs: F8 F9

Water hazard class (WGK, Germany)

Chemical name: Zinc sulfate solution, cas number: 7733-02-0
WGK hazard class: WGK 3 - Extremely hazardous to water

NFPA Rating



SECTION 16: Other information

Further information/disclaimer

Voluntary Purchasing Groups, Inc. believes the information presented herein is accurate and correct as of the document date. The presented information is based upon available data from reliable sources. Voluntary Purchasing Groups, Inc. makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.