



**VOLUNTARY PURCHASING GROUPS, INC.**

## **Safety Data Sheet Ferti-lome® Tree and Shrub Food 19-8-10**

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### **SECTION 1: Identification**

#### **GHS Product identifier**

Product name Ferti-lome® Tree and Shrub Food 19-8-10  
Product number 13864; 13864Q; 13865  
Brand Ferti-lome®

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

NPK 19-8-10

#### **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**

CAUSES SERIOUS EYE DAMAGE.  
CAUSES SKIN AND RESPIRATORY IRRITATION.

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

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

- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity (single exposure), Cat. 3

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

#### **Pictograms**

**Safety Data Sheet**  
**Ferti-lome® Tree and Shrub Food 19-8-10**



**Signal word**

**Danger**

**Hazard statement(s)**

H318 Causes serious eye damage  
 H315 Causes skin irritation  
 H335 May cause respiratory irritation  
 H336 May cause drowsiness or dizziness

**Precautionary statement(s)**

P280 Wear eye protection/face protection/protective gloves.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor/...  
 P310 Wash ... thoroughly after handling.  
 P264 IF ON SKIN: Wash with plenty of water/...  
 P302+P352 Specific treatment (see ... on this label).  
 P321 If skin irritation occurs: Get medical advice/attention.  
 P332+P313 Take off contaminated clothing and wash it before reuse.  
 P362+P364 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P261 Use only outdoors or in a well-ventilated area.  
 P271 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P304+P340 Call a POISON CENTER/doctor/.../ if you feel unwell.  
 P312 Store in a well-ventilated place. Keep container tightly closed.  
 P403+P233 Store locked up.  
 P405 Dispose of contents/container to ...  
 P501

**SECTION 3: Composition/information on ingredients**

**Mixtures**

**Hazardous components**

Component	Concentration
<b>Monoammonium phosphate (CAS no.: 7722-76-1)</b>	<b>Not specified</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Ammonium sulfate (CAS no.: 7783-20-2)</b>	<b>Not specified</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Urea (CAS no.: 57-13-6)</b>	<b>Not specified</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Iron (III) oxide (CAS no.: 1309-37-1)</b>	<b>65 - 78.75 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Ferrous sulfate (CAS no.: 7720-78-7)</b>	<b>5 - 15.75 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Manganese (II) oxide (CAS no.: 1344-43-0)</b>	<b>1 - 5.25 %</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>1 - 3.15 %</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>2 - 5.25 %</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>1 - 3.15 %</b>
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.	

# Safety Data Sheet

## Ferti-lome® Tree and Shrub Food 19-8-10

<b>Calcium oxide (CAS no.: 1305-78-8)</b>	<b>1 - 5.25 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Gypsum (CAS no.: 13397-24-5)</b>	<b>5 - 10.5 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Silica (CAS no.: 7631-86-9; EC no.: 231-545-4)</b>	<b>2 - 5.25 %</b>
CLASSIFICATIONS: Specific target organ toxicity (repeated exposure), Cat. 1. HAZARDS: No data available.	
<b>Potassium chloride (CAS no.: 7447-40-7; EC no.: 231-211-8)</b>	<b>0.95 - 1.99 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Sodium chloride (CAS no.: 7647-14-5; EC no.: 425-740-5; Index no.: 611-142-00-3)</b>	<b>0.01 %</b>
CLASSIFICATIONS: Eye damage/irritation, Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 3. HAZARDS: H318 - Causes serious eye damage; H412 - Harmful to aquatic life with long lasting effects.	
<b>Calcium sulfate (CAS no.: 7778-18-9)</b>	<b>0.4 - 1.4 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Sulfuric acid, iron(2+) salt 1:1, monohydrate (CAS no.: 17375-41-6)</b>	<b>0.1 - 0.6 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Manganese (II) sulfate monohydrate (CAS no.: 10034-96-5)</b>	<b>0.03 - 0.14 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Zinc sulfate, monohydrate (CAS no.: 7446-19-7)</b>	<b>0.05 - 0.2 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Copper sulfate pentahydrate (CAS no.: 7758-99-8)</b>	<b>0.05 - 0.2 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Borates, tetra, sodium salts, pentahydrate (CAS no.: 12179-04-3)</b>	<b>0.01 - 0.1 %</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 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. Call a poison control center or doctor for treatment advice.

# Safety Data Sheet

## Ferti-lome® Tree and Shrub Food 19-8-10

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

No information available.

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

No information available.

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## SECTION 5: Fire-fighting measures

### Suitable extinguishing media

Water, foam, 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

Minimize breathing gases, vapors, or decomposition products.

Use supplied air-breathing equipment.

Use water to cool fire exposed containers.

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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

## Ferti-lome® Tree and Shrub Food 19-8-10

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

### Conditions for safe storage, including any incompatibilities

Avoid strong oxidizers and alkalis.

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## SECTION 8: Exposure controls/personal protection

### 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.)	Multi-colored granules
Odor	Slight chlorine odor
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available
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
<b>Additional properties</b>	
Physical state	Solid
Color	Multi-colored

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## SECTION 10: Stability and reactivity

### Reactivity

No information available.

### Chemical stability

# Safety Data Sheet

## Ferti-lome® Tree and Shrub Food 19-8-10

Stable.

### Possibility of hazardous reactions

Polymerization will not occur.

### Conditions to avoid

Avoid heating or direct exposure to sunlight.

### Incompatible materials

Strong oxidizers and alkalis.

### Hazardous decomposition products

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

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

MANGANESE (II) SULFATE MONOHYDRATE

LD50 Oral - >2,000 mg/kg

Potassium chloride

Result: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

LC50 - Pimephales promelas (fathead minnow) - 880 mg/l - 96 h

NOEC - Pimephales promelas (fathead minnow) - 500 mg/l - 7 d

LOEC - Pimephales promelas (fathead minnow) - 1,000 mg/l - 7 d

EC50 - Daphnia magna (water flea) - >440 mg/l - 48 h

Silica

LD50 Oral - Rat - > 3,160 mg/kg

Sodium chloride

LD50 Oral - Rat - 3,550 mg/kg

LD50 Skin - Rabbit - > 10,000 mg/kg

LD50 Inhalation - Rat - > 42,000 mg/m<sup>3</sup> - 1 hr

NOEC - Daphnia magna (water flea) - 1,500 mg/l - 7 d

LC50 - Lepomis macrochirus (bluegill) - 5,840 mg/l - 96 h

LC50 - Daphnia magna (water flea) - 1,661 mg/l - 48 h

Zinc oxide

LD50 Oral - Mouse - 7,950 mg/kg

LC50 Inhalation - Mouse - 2,500 mg/m<sup>3</sup>

LC50 - Oncorhynchus mykiss (rainbow trout) - 1.1 mg/l - 96 h

EC50 - Daphnia magna (water flea) - 0.098 mg/l - 48 h

### Skin corrosion/irritation

Skin contact may result in local irritation.

# Safety Data Sheet

## Ferti-lome® Tree and Shrub Food 19-8-10

### 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.

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## SECTION 12: Ecological information

### Toxicity

Potassium chloride

LC50 - Pimephales promelas (fathead minnow) - 880 mg/l - 96 h

NOEC - Pimephales promelas (fathead minnow) - 500 mg/l - 7 d

LOEC - Pimephales promelas (fathead minnow) - 1,000 mg/l - 7 d

EC50 - Daphnia magna (water flea) - >440 mg/l - 48 h

Sodium chloride

NOEC - Daphnia magna (water flea) - 1,500 mg/l - 7 d

LC50 - Lepomis macrochirus (bluegill) - 5,840 mg/l - 96 h

LC50 - Daphnia magna (water flea) - 1,661 mg/l - 48 h

Zinc oxide

LC50 - Oncorhynchus mykiss (rainbow trout) - 1.1 mg/l - 96 h

EC50 - Daphnia magna (water flea) - 0.098 mg/l - 48 h

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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

# Safety Data Sheet

## Ferti-lome® Tree and Shrub Food 19-8-10

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

##### US EPA TSCA public inventory

Chemical name: Phosphoric acid, ammonium salt (1:1)

CAS number: 7722-76-1

##### Water hazard class (WGK, Germany)

Chemical name: Monoammonium phosphate, cas number: 7722-76-1

WGK hazard class: WGK 1 - Slightly hazardous to water

##### Massachusetts Toxic Use Reduction Act (TURA) list

Chemical name: Ammonium sulfate solution

CAS number: 7783-20-2

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 Ammonia CAS 7664417. Do not report as an individual chemical. Changes: Delisted from TRI and TURA as an individual chemical of RY1994 but ammonia portions still reportable under ammonia

##### Pennsylvania Right To Know Components

Chemical name: Sulfuric acid diammonium salt

CAS number: 7783-20-2

Listing note: E-environmental hazard.

##### US EPA TSCA public inventory

Chemical name: Sulfuric acid ammonium salt (1:2)

CAS number: 7783-20-2

##### Massachusetts Right To Know Components (105 CMR 670)

Chemical name: Ammonium sulfate

CAS number: 7783-20-2

Asterisk: no; Refs: 5 F9

##### Water hazard class (WGK, Germany)

Chemical name: Ammonium sulfate, cas number: 7783-20-2

WGK hazard class: WGK 1 - Slightly hazardous to water

##### US EPA TSCA public inventory

Chemical name: Urea

CAS number: 57-13-6

##### Water hazard class (WGK, Germany)

Chemical name: Urea, cas number: 57-13-6

WGK hazard class: WGK 1 - Slightly hazardous to water

##### California Proposition 65 List

Product name: Ferti-lome® Tree and Shrub Food 19-8-10

# Safety Data Sheet

## Ferti-lome® Tree and Shrub Food 19-8-10

### SARA 311/312 Hazards

Product name: Ferti-lome® Tree and Shrub Food 19-8-10

### HMIS Rating

Ferti-lome® Tree and Shrub Food 19-8-10	
HEALTH	1
FLAMMABILITY	
PHYSICAL HAZARD	
PERSONAL PROTECTION	

### NFPA Rating



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## 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.