

MATERIAL SAFETY DATA SHEET



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

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, Texas 75418

Ferti-lome® Soil Acidifier

Effective Date: May 4, 2012

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Ferti-lome Soil Acidifier

COMPANY IDENTIFICATION:

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, TX. 75418

2. INGREDIENTS:

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Magnesium Sulfate	10034-99-8	Proprietary	Not Established	Not Established
Copper sulfate [1]	7758-98-7	2.4	1 mg/m3 (Cu)	1 mg/m3 (Cu)
Ferrous Sulfate (heptahydrate)	7720-78-7	Proprietary	Not Established	Not Established
Zinc Sulfate [1]	7733-02-0	1.4	Not Established	Not Established
(Copper) [1]	7440-50-8	Proprietary	Not Established	Not Established

[1] NOTE: This is a toxic chemical and is subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration.

TLV: Threshold Limit Value recommended by the American Conference of Governmental Industrial Hygienists.

3. PHYSICAL DATA:

BOILING POINT (°F) Not established	SPECIFIC GRAVITY (H ₂ O=1) 1.2032	VAPOR PRESSURE (mm Hg) Not established
PERCENT VOLATILE BY VOLUME (%) Not established	VAPOR DENSITY (AIR=1) Not established	EVAPORATION RATE (ethyl ether=1) Not established
SOLUBILITY IN WATER Miscible	REACTIVITY IN WATER Does not apply	
APPEARANCE AND ODOR Light blue with acidic odor		

4. FIRE AND EXPLOSION DATA:

FLASH POINT (°F) Not established	FLAMMABLE LIMITS IN AIR (% by volume) Lower: Not established Upper: Not established	
EXTINGUISHING MEDIA Use extinguisher appropriate to surrounding fire.	AUTO IGNITION TEMPERATURE Not established	
UNUSUAL FIRE AND EXPLOSION HAZARDS Not determined		
SPECIAL FIRE FIGHTING PROCEDURES Use fire-fighting procedures appropriate to surrounding fire.		

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5. HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS Eyes, skin, upper respiratory tract, gastrointestinal tract		
SIGNS AND SYMPTOMS OF EXPOSURE		
(1) ACUTE OVEREXPOSURE EYE CONTACT: Irritation. SKIN CONTACT: Irritation. INHALATION: Irritation, difficulty breathing, acidic or sour taste. INGESTION: Irritation of the G.I. tract, possible shock, liver damage, tachycardia or death.		
(2) CHRONIC OVEREXPOSURE None determined.		
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Dermatitis, asthma, conjunctivitis, stomach and digestive problems.		
CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN None		
NTP <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	IARC <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	OSHA <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
OTHER EXPOSURE LIMITS Not determined		
EMERGENCY AND FIRST AID PROCEDURES EYE CONTACT: Flush with water for 15 minutes. Seek medical attention if irritation persists. SKIN CONTACT: Remove contaminated clothing. Flush with water for several minutes. Seek medical attention if irritation persists. INGESTION: Seek medical attention immediately. Do not induce vomiting. INHALATION: Remove victim to fresh air. If not breathing administer artificial respiration. Seek medical attention immediately.		

6. REACTIVITY DATA:

STABILITY <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	CONDITIONS TO AVOID High temperatures
INCOMPATIBILITY (Materials to Avoid) Phosphorus, maleic anhydride, oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS Sulfur oxides and magnesium oxides.	
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not occur	CONDITIONS TO AVOID Not determined

7. SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED Wear protective equipment (see Section 8). Use an absorbent material to contain spill and sweep or shovel into a labeled container for disposal.
WASTE DISPOSAL METHOD Dispose of in accordance with Federal, State, and local regulations.

8. PERSONAL PROTECTIVE INFORMATION:

RESPIRATORY PROTECTION Not required under conditions of normal intended use.

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VENTILATION Use in well-ventilated area.
PROTECTIVE GLOVES If skin contact is likely to occur.
EYE PROTECTION Chemical splash goggles (ANSI Z87.1 1979)
OTHER PROTECTIVE CLOTHING OR EQUIPMENT Not determined

9. SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING Store away from food, feed and seed and out of reach from children and animals.
OTHER PRECAUTIONS Not determined

10. TRANSPORT INFORMATION:

Not regulated by DOT or IMDG.

11. OTHER INFORMATION:

The information contained within was obtained from authoritative sources and is believed to be accurate for the manner in which the product is intended to be used. Other uses could result in ramifications, which are not included within this document.