

MATERIAL SAFETY DATA SHEET



Ferti-lome® Acid Loving Plant Food

In the event of a medical or chemical emergency contact
ChemTel, Inc. North America 1-800-255-3924 or worldwide
Intl. + 01-813-248-0585

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

Effective Date: May 2, 2012

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Ferti-lome Acid Loving Plant Food

COMPANY IDENTIFICATION:

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

2. INGREDIENTS:

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)
Urea	57-13-6	Proprietary
Monoammonium phosphate	7783-28-0	Proprietary
Potassium nitrate	7757-79-1	Proprietary
Ferrous sulfate	7720-78-7	Proprietary

3. PHYSICAL DATA:

BOILING POINT(°F) Does not apply		SPECIFIC GRAVITY(H ₂ O=1) Not determined		VAPOR PRESSURE (mm Hg) Not determined	
PERCENT VOLATILE BY VOLUME (%) Not determined		VAPOR DENSITY (AIR=1) Not determined		EVAPORATION RATE (ethyl ether=1) Not determined	
SOLUBILITY IN WATER Appreciable			REACTIVITY IN WATER Will not evolve flammable or toxic gases		
APPEARANCE AND ODOR Blue crystals. Slight odor.					

4. FIRE AND EXPLOSION DATA:

FLASH POINT (°F) Does not apply	FLAMMABLE LIMITS IN AIR (% by volume) Lower: <u>Notdetermined</u> Upper: <u>Not determined</u>
EXTINGUISHING MEDIA Water, foam, dry chemical, or CO ₂	AUTO IGNITION TEMPERATURE Not determined
UNUSUAL FIRE AND EXPLOSION HAZARDS Decomposes upon heating to liberate ammonia and oxygen. Avoid dispersion of dust to reduce potential explosion hazard. Components are oxidizers, which decompose to liberate oxygen, which increases the burning rate of combustible matter. Contact with other combustible materials may result in explosion.	
SPECIAL FIRE FIGHTING PROCEDURES Wear pressure-demand, self-contained breathing apparatus, MSHA/NIOSH approved or equivalent, and full protective gear. Avoid inhalation of fumes and dust.	

5. HEALTH INFORMATION:

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS
Skin contact, inhalation, eye contact, and ingestion

~~SIGNS AND SYMPTOMS OF EXPOSURE~~

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(1) ACUTE OVEREXPOSURE

Ingestion of large quantities may cause symptoms of non-specific irritation of the gastrointestinal tract nausea, vomiting, cramps, and diarrhea. Eye and skin contact may result in local irritation and burns. Acidic substances may cause burns with discoloration and corrosion of the mucous membranes of the mouth, throat, and esophagus, with symptoms of thirst, epigastric pain, nausea, vomiting and diarrhea. Inhalation of high concentrations may result in upper respiratory tract irritation.

(2) CHRONIC OVEREXPOSURE

Repeated or prolonged eye contact may cause conjunctivitis. Repeated or prolonged inhalation may cause erosion of the teeth, inflammatory and ulcerative changes in the mouth, and possibly jaw necrosis. Repeated skin contact may result in dermatitis.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Disorders of respiratory system, dermatitis, or other skin disorders.

CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

None

NTP

☐ YES ☒ NO

IARC

☐ YES ☒ NO

OSHA

☐ YES ☒ NO

OTHER EXPOSURE LIMITS

TLV (nuisance dusts)=10 mg/m³; PEL (nuisance dusts)=15 mg/m³

EMERGENCY AND FIRST AID PROCEDURES

INGESTION: Do not induce vomiting. Dilute acid immediately by drinking large quantities of water or milk. If vomiting persists, administer fluids repeatedly. Never give anything by mouth to an unconscious person. Call a physician. EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface of the eye and lids with water. Obtain medical attention if irritation persists. Oils or ointments should not be used unless directed by a physician. SKIN CONTACT: Immediately wash skin with soap and plenty of water. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

6. REACTIVITY DATA:

STABILITY

☐ Unstable ☒ Stable

CONDITIONS TO AVOID

Decomposes upon heating

INCOMPATIBILITY (Materials to Avoid)

Strong oxidizers, alkalis, organic agents, and other agents. Do not mix with other compounds.

HAZARDOUS DECOMPOSITION PRODUCTS

Ammonia, phosphorous oxides, cyanuric acids, carbon dioxide, oxides of nitrogen and potassium.

HAZARDOUS POLYMERIZATION

☐ May Occur ☒ Will Not occur

CONDITIONS TO AVOID

Avoid heating or direct exposure to sunlight

7. SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED

Keep combustibles away from spilled material. Clean up of spills may require personal protective equipment. See Section 8. Sweep up or vacuum the material and transfer to a sealed, labeled, container. Residue may be washed away with water. Comply with all applicable governmental regulations concerning spill reporting, handling, and disposal of waste.

WASTE DISPOSAL METHOD

Dispose of in accordance with Federal, State, and local regulations.

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8. PERSONAL PROTECTION INFORMATION:

RESPIRATORY PROTECTION

NIOSH/MSHA approved for protection against toxic dusts and acid gases.

VENTILATION

Local or general exhaust to maintain exposure below TLV/PEL

PROTECTIVE GLOVES

PVC or Neoprene

EYE PROTECTION

Splash-proof or dust-resistant safety goggles to prevent eye contact with this substance. Contact lenses should not be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Apron, boots, long sleeve shirt and full-length pants (or overalls) may be worn when necessary to prevent skin contact. Eye wash and shower facilities should be available.

9. SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Corrosive to cast iron and aluminum. Store in dry, cool, ventilated area, out of direct sunlight.

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.