

# MATERIAL SAFETY DATA SHEET



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: January 2013

## Ferti-lome® Blooming and Rooting Soluble Plant Food

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT:** Ferti-lome Blooming and Rooting Soluble Plant Food  
**FORMULA:** Mixture

#### COMPANY IDENTIFICATION:

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

### 2. INGREDIENTS:

CHEMICAL COMPONENT	% (TYPICAL)
Total Nitrogen (N)	9%
Available Phosphoric Acid (P205)	58%
Total Potassium (K20)	8%

### 3. PHYSICAL DATA:

BOILING POINT (°F) Does not apply	SPECIFIC GRAVITY (H <sub>2</sub> 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-green crystals; slight odor		

### 4. FIRE AND EXPLOSION DATA:

FLASH POINT (°F) Does not apply	FLAMMABLE LIMITS IN AIR (% by volume) Lower: <u>Not determined</u> Upper: <u>Not determined</u>	
EXTINGUISHING MEDIA Water, foam, dry chemical or CO <sub>2</sub>	AUTO IGNITION TEMPERATURE Not determined	
UNUSUAL FIRE AND EXPLOSION HAZARDS Decomposes upon heating to liberate ammonia. Avoid dispersion of dust in air to reduce potential explosion hazard.		
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 pains, nausea, headaches, dizziness, mental confusion, weakness of legs, muscle cramps, numbness, vomiting and diarrhea. Inhalation of high concentrations may result in upper respiratory tract irritation, and may increase risk of asthmatic attacks. Potassium poisoning may affect the heart and electrolyte balance.

### (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. May impair kidney function and disturb the rhythm of the heart.

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Disorders of the respiratory system, heart, kidneys, asthma, dermatitis,

### 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/m<sup>3</sup>; OSHA PEL (nuisance dusts) = 15 mg/m<sup>3</sup>

### 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, 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 PROTECTIVE INFORMATION:

#### RESPIRATORY PROTECTION

NIOSH/MSHA approved for protection against toxic 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

Aprons, boots, long-sleeved 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 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.