

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® Rose Food

Effective Date: May 17, 2012

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Ferti-lome Rose Food

FORMULA: Mixture

COMPANY IDENTIFICATION:

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

2. INGREDIENTS:

| CHEMICAL COMPONENT | % (TYPICAL) |
|----------------------------------|-------------|
| Total Nitrogen (N) | 14.00% |
| Available Phosphoric Acid (P205) | 12.00% |
| Total Potassium | 11.00% |
| Boron (B) | 0.02% |
| Copper (Cu) | 0.05% |
| Iron (Fe) | 0.10% |
| Manganese (Mn) | 0.05% |
| Zinc (Zn) | 0.05% |

3. PHYSICAL DATA:

| | | |
|--|---|--|
| BOILING POINT (°F) Does not apply | SPECIFIC GRAVITY (H ₂ O=1) 0.4 | VAPOR PRESSURE (mm Hg) Does not apply |
| PERCENT VOLATILE BY VOLUME (%) <1% | VAPOR DENSITY (AIR=1) Does not apply | EVAPORATION RATE (ethyl ether=1) Does not apply |
| SOLUBILITY IN WATER Appreciable | REACTIVITY IN WATER Will not evolve flammable or toxic gases | |
| APPEARANCE AND ODOR Multi-colored granules; slight chlorine odor. | | |

4. FIRE AND EXPLOSION DATA:

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|---|--|--|
| FLASH POINT (°F) Does not apply | FLAMMABLE LIMITS IN AIR (% by volume) Lower: Not determined Upper: Not determined | |
| 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 sulfur trioxide. Avoid dispersion of dust in air to reduce potential explosion hazard. If mixed with oxidizers such as potassium chlorate, potassium nitrite, or potassium nitrate, an explosion hazard will exist. | | |
| 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. | | |

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5. HEALTH INFORMATION

| | | |
|---|---|---|
| PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS Skin contact, inhalation, eye contact and ingestion. | | |
| SIGNS AND SYMPTOMS OF EXPOSURE | | |
| (1) ACUTE OVEREXPOSURE Ingestion of large quantities may cause symptoms of non-specific irritation tract; nausea, vomiting, cramps, and diarrhea. Eye and skin contact may result in local irritation. Inhalation of high concentrations may result in upper respiratory tract irritation. | | |
| (2) CHRONIC OVEREXPOSURE Inhalation of dust may permanently damage the lungs and result in the development of pneumoconiosis, or other respiratory disorders. | | |
| 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 <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 TLV (nuisance dusts) = 10 mg/m ³ ; OSHA PEL (nuisance dusts) = 15 mg/m ³ | | |
| EMERGENCY AND FIRST AID PROCEDURES INGESTION: Induce vomiting by giving two glasses of water and sticking finger down throat. Never give anything to an unconscious person. Call a physician. EYE CONTACT: Immediately flush eye 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. Wash clothing before reuse. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. | | |

6. REACTIVITY DATA:

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|---|--|
| STABILITY <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable | CONDITIONS TO AVOID Decomposes upon heating. |
| INCOMPATIBILITY (Materials to Avoid) Strong oxidizers, alkalis, potassium chlorate, potassium nitrate and potassium nitrite. | |
| HAZARDOUS DECOMPOSITION PRODUCTS Ammonia, sulfur trioxide, phosphorous oxides, cyanuric acid and carbon dioxide. | |
| HAZARDOUS POLYMERIZATION <input checked="" type="checkbox"/> May Occur <input type="checkbox"/> Will Not occur | CONDITIONS TO AVOID Avoid heating or direct sunlight. |

7. SPILL OR LEAK PROCEDURES:

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| STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED Clean up of spills may require personal protective equipment. See Section 8. Sweep up or vacuum the material and transfer to sealed, labeled containers. Keep spill out of sewers and open bodies of water. Comply with all applicable regulation concerning spill reporting, handling, and disposal of waste. |
| WASTE DISPOSAL METHOD Components of this product are toxic to aquatic life. Dispose of in accordance with Federal, State, and local |

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regulations.

8. PERSONAL PROTECTIVE INFORMATION:

RESPIRATORY PROTECTION

NIOSH/MSHA approved for protection against toxic dusts containing quartz. If ammonia vapors are encountered, NIOSH/MSHA approved respirators for protection against ammonia vapors.

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. Separate from strong oxidizers.

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.