

**Material
Safety
Data
Sheet****ferti-lome(R) Geranium, Hanging Basket & Pansy
Soluble Plant Food****SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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| Name: Voluntary Purchasing Groups, Inc. | Box 460, Bonham, TX 75418 |
| Emergency Telephone: (903) 583-5501 or (800) 424-9300 (Chemtrec) | |
| For Additional Information Contact: Product Manager or Chemtrec | Date Prepared: 01/23/00 |
| Common Name (Used on Label): ferti-lome(R) Geranium, Hanging Basket & Pansy Soluble Plant Food | Chemical Family: Does not apply |
| Chemical Name: Mixture | Formula: Mixture derived from primary plant nutrient sources; urea, ammonium phosphate, potassium nitrate, and potassium sulfate. |
| Trade Name & Synonyms: ferti-lome(R) Geranium, Hanging Basket & Pansy Soluble Plant Food | |

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| HAZARDOUS COMPONENT | CAS NUMBER | % (TYPICAL) | TLV (UNITS) | PEL (UNITS) |
|---------------------|------------|-------------|-----------------|-----------------|
| Urea | 57-13-6 | Proprietary | Not established | Not established |
| Ammonium phosphate | 7722-76-1 | Proprietary | Not established | Not established |
| Potassium nitrate | 7757-79-1 | Proprietary | Not established | Not established |
| Potassium sulfate | 7778-80-5 | Proprietary | Not established | Not established |
| Phosphoric acid [1] | 7664-38-2 | 20 | 1 mg/m3 | 1 mg/m3 |

[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.

SECTION 3 - PHYSICAL DATA

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| 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) Nt 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 | | |

SECTION 4 - FIRE AND EXPLOSION DATA

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| FLASH POINT (°F) | FLAMMABLE LIMITS IN AIR (% by volume) |
| Product Name: ferti-lome(R) Geranium, Hanging Basket & Pansy Soluble Plant Food | ID Number: Page: 1 |

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|---|---|
| Does not apply | Lower: <u>Not determined</u> Upper: <u>Not determined</u> |
| EXTINGUISHING MEDIA Water, foam, dry chemical, or CO2 | 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 ignition, violent combustion, or 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. | |

SECTION 5 - HEALTH INFORMATION

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| 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 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, may cause risk of asthmatic attack. | | |
| (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, asthma, 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) =10mg/m ³ ; PEL (nuisance dusts) =15 mg/m ³ | | |
| 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. Oil 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. | | |

SECTION 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, organic agents, and other agents. Do not mix compounds. | | |
| HAZARDOUS DECOMPOSITION PRODUCTS Ammonia, phosphorous oxides, cyanuric acid, cyanic acid, carbonyl dioxide, oxide of nitrogen, potassium, and sulfur | | |
| HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not occur | | CONDITIONS TO AVOID Avoid heating or direct exposure to sunlight. |

SECTION 7 - SPILL OR LEAK PROCEDURES

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| 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. |

SECTION 8 - PERSONAL PROTECTION INFORMATION

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| 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 Aprons, 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. |

SECTION 9 - SPECIAL PRECAUTIONS

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| 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 |

SECTION 10 - OTHER INFORMATION

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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.