

**Material
Safety
Data
Sheet**
ferti-lome® Start-N-Grow™ Plant Food
SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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: 03-14-03
Common Name (Used on Label): ferti-lome® Start-N-Grow™ Plant Food	Chemical Family: Mixture
Chemical Name: Mixture	Formula: Mixture
Trade Name & Synonyms: ferti-lome® Start-N-Grow™ Plant Food	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Hydrous magnesium aluminum silicate: or hydrous aluminum silicate	8031-18-3	Proprietary	10 mg/m3	15 mg/m3
Quartz	14808-60-7	Proprietary	0.1 mg/m3**	0.1 mg/m3**
Potassium chloride	7447-40-7	Proprietary	10 mg/m3	15 mg/m3
Urea, carbamide	57-13-6	Proprietary	10 mg/m3	15 mg/m3
Urea, formaldehyde	9011-05-6	Proprietary	Not established	Not established
Formaldehyde *	50-00-0	<0.1	0.1ppm-ceiling	0.75 ppm
** respirable fraction				

* This substance 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

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 Not determined	REACTIVITY IN WATER Will not evolve flammable or toxic gases	
APPEARANCE AND ODOR Tan color; earthy odor		

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (°F) Does not apply	FLAMMABLE LIMITS IN AIR (% by volume) Lower: Not determined Upper: Not determined	
EXTINGUISHING MEDIA Carbon dioxide, foam, dry chemical, water fog.	AUTO IGNITION TEMPERATURE Not determined	

UNUSUAL FIRE AND EXPLOSION HAZARDS Do not breathe products of combustion. Product may be slippery when wet.
SPECIAL FIRE FIGHTING PROCEDURES Utilize self-contained breathing apparatus with full facepiece operated in pressure demand or other positive pressure mode. Remove containers from fire area. Do not breathe smoke.

SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS Inhalation, eye and skin contact, ingestion		
SIGNS AND SYMPTOMS OF EXPOSURE		
(1) ACUTE OVEREXPOSURE May be harmful if inhaled in sufficient quantities. Symptoms may include breathlessness, wheezing, cough and sputum production. May be irritating to the eyes, skin, mucous membranes, nasal, and respiratory passages. Ingestion may cause gastrointestinal irritation and central nervous system (CNS) depression. CNS depression may include symptoms of drowsiness, slow reflexes, and slurred speech. A component of this product is diuretic.		
(2) CHRONIC OVEREXPOSURE Prolonged exposure to dust of Fuller's earth may cause a relatively benign lung disease, though there is a risk of the development of massive fibrosis. Repeated and prolonged exposure to respirable crystalline quartz, which may be contained in this product, may cause delayed lung injury including silicosis. Silicosis is a form of disabling pulmonary fibrosis, which can be progressive and may lead to death. Repeated or prolonged skin contact may cause skin irritation. Some individuals may experience sensitization reaction with the formaldehyde component of this product.		
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Disorders of the eyes, skin, respiratory system, and central nervous system.		
CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN Formaldehyde, quartz		
NTP <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	IARC <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OSHA <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
OTHER EXPOSURE LIMITS OSHA action level=0.5 mg/m ³		
EMERGENCY AND FIRST AID PROCEDURES INHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician. EYE OR SKIN CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Flush skin with water. Wash clothing before reuse. INGESTION: Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person.		

SECTION 6 - REACTIVITY DATA

STABILITY <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	CONDITIONS TO AVOID Does not apply
INCOMPATIBILITY (Materials to Avoid) Polyunsaturated liquids, P ₂ Cl ₅ , nitrosyl perchlorate, nitrates, alkalis, oxidizing agents, hypochlorides, aldehydes, inorganic acids, olefins, polymerizable esters.	
HAZARDOUS DECOMPOSITION PRODUCTS Biuret, cyanic acid ammonia, and nitrogen oxides.	
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not occur	CONDITIONS TO AVOID Does not apply

SECTION 7 - SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED**

Clean up of dustless methods (vacuum) and place into a labeled, closable container, or the original container for later disposal or reuse. Do not dry sweep. Flush with water. Do not allow wash water to enter drinking water supplies, sewer, or waterways. Keep animals away from large spills. Utilize personal protective equipment.

WASTE DISPOSAL METHOD

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

SECTION 8 - PERSONAL PROTECTION INFORMATION**RESPIRATORY PROTECTION**

NIOSH/MSHA approved respiratory devices to protect against dusts containing quartz.

VENTILATION

General or local exhaust to maintain employee exposure below the TLV/PEL.

PROTECTIVE GLOVES

As necessary to prevent skin contact.

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

Utilize impervious clothing and other equipment, as necessary, to prevent skin contact with this substance.

SECTION 9 - SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN IN HANDLING & STORING**

Avoid breakage of bagged material or spills of bulk material. Use dustless systems for handling, storage, and cleanup. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Wash or vacuum clothing, which has become dusty.

OTHER PRECAUTIONS

Do not eat, drink, or smoke while handling.

SECTION 10 - 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.