

**Material  
Safety  
Data  
Sheet**
**ferti-lome® Fish Emulsion 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® Fish Emulsion Plant Food	Chemical Family: Mixture
Chemical Name: Mixture	Formula: Mixture
Trade Name & Synonyms: ferti-lome® Fish Emulsion Plant Food	

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Sulfuric acid [1]	7664-93-9	0.2	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
Phosphoric acid [1]	7664-38-2	2.0	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
Chlorine [1]	7782-50-5	1.0	0.5	0.5 ppm
Fish Soluble	Not determined	50.0	Not established	Not established

[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**

BOILING POINT (°F) Not determined	SPECIFIC GRAVITY (H <sub>2</sub> O=1) 1.200	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 (50%)	REACTIVITY IN WATER Not determined	
APPEARANCE AND ODOR Thick brown liquid; characteristic odor.		

**SECTION 4 - FIRE AND EXPLOSION DATA**

FLASH POINT (°F) Not determined	FLAMMABLE LIMITS IN AIR (% by volume) Lower: Not determined Upper: Not determined	
EXTINGUISHING MEDIA Use appropriate media for surrounding fire.	AUTO IGNITION TEMPERATURE Not determined	
UNUSUAL FIRE AND EXPLOSION HAZARDS Not determined		
SPECIAL FIRE FIGHTING PROCEDURES		

Remove containers from area of fire, if possible. Avoid inhalation of fumes. Utilize self-contained breathing apparatus with full facepiece operated in pressure demand or other positive pressure mode.

### SECTION 5 - HEALTH INFORMATION

#### PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS

Skin contact, inhalation, eye contact, 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.

##### (2) CHRONIC OVEREXPOSURE

Repeated or prolonged eye contact may cause conjunctivitis. Repeated skin contact may result in dermatitis.

#### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Disorders of respiratory systems, dermatitis, and other skin disorders.

#### CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

None

#### NTP

YES  NO

#### IARC

YES  NO

#### OSHA

YES  NO

#### OTHER EXPOSURE LIMITS

None determined

#### 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, hold eyelids apart to ensure flushing of entire surface of the eye and lids with water. Obtain medical attention if irritation persists. Oils and 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

#### STABILITY

Unstable  Stable

#### CONDITIONS TO AVOID

Does not apply

#### INCOMPATIBILITY (Materials to Avoid)

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

#### HAZARDOUS DECOMPOSITION PRODUCTS

Hydrochloric acid, ammonia, chlorine, sulfuric acids, oxides of nitrogen and potassium, and other toxic agents.

#### HAZARDOUS POLYMERIZATION

May Occur  Will Not occur

#### CONDITIONS TO AVOID

Not determined

### SECTION 7 - SPILL OR LEAK PROCEDURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED

Absorb spilled material with fired clay or other absorbing material, and shovel or sweep up the place in labeled container and seal. Comply with all applicable governmental regulations concerning spill reporting, handling, and disposal waste.

#### WASTE DISPOSAL METHOD

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

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

NIODH/MSHA approved respiratory devices to protect against acid gases

**VENTILATION**

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

**PROTECTIVE GLOVES**

Impervious gloves 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**

When necessary utilize impervious clothing and other equipment to prevent skin contact with this substance. Eye wash and shower facility should be available.

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

Store in a dry, cool, ventilated area, out of direct sunlight.

**OTHER PRECAUTIONS**

None determined

**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.