

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

Effective Date: May 3, 2012

Ferti-lome® Fish Emulsion Plant Food

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Ferti-lome Fish Emulsion Plant Food
CHEMICAL FAMILY: Mixture
CHEMICAL NAME: Mixture

COMPANY IDENTIFICATION:

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

2. INGREDIENTS:

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Sulfuric acid [1]	7664-93-9	0.2	1 mg/m3	1 mg/m3
Phosphoric acid [1]	7664-38-2	2.0	1 mg/m3	1 mg/m3
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.

3. PHYSICAL DATA:

BOILING POINT (°F) Not determined	SPECIFIC GRAVITY (H ₂ 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 Brown liquid; characteristic odor.		

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.		

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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 <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 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.		

6. REACTIVITY DATA:

STABILITY <input checked="" type="checkbox"/> Unstable <input checked="" type="checkbox"/> 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 <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not occur	CONDITIONS TO AVOID Not determined

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

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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.

8. PERSONAL PROTECTIVE 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.

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

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.