

**Material  
Safety  
Data  
Sheet****ferti-lome(R) Liquid Iron Chelated****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: 01/23/00
Common Name (Used on Label): ferti-lome(R) Liquid Iron Chelated	Chemical Family: Does not apply
Chemical Name: Does not apply	Formula: Mixture of iron, zinc, managanese and copper salts.
Trade Name & Synonyms: ferti-lome(R) Liquid Iron Chelated	

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

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Manganese [1]	7439-96-5	0.25	5.0 mg/m3	(C) 5.0 mg/m3
Copper (mist) [1]	7440-50-8	0.125	1.0 mg/m3	1.0 mg/m3
(C): Ceiling				

{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 established	SPECIFIC GRAVITY (H <sub>2</sub> O=1) 1.21	VAPOR PRESSURE (mm Hg) Not established
PERCENT VOLATILE BY VOLUME (%) Not established	VAPOR DENSITY (AIR=1) Not established	EVAPORATION RATE (ethyl ether=1) Not established
SOLUBILITY IN WATER Complete		REACTIVITY IN WATER Does not apply
APPEARANCE AND ODOR Light green		

**SECTION 4 - FIRE AND EXPLOSION DATA**

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

Use procedures appropriate to fighting surrounding fire.

## SECTION 5 - HEALTH INFORMATION

### PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS

Eyes, Gastrointestinal tract. Eyes, liver, kidneys

### SIGNS AND SYMPTOMS OF EXPOSURE

#### (1) ACUTE OVEREXPOSURE

EYE CONTACT: Local irritation. INGESTION: May cause stomach pain.

#### (2) CHRONIC OVEREXPOSURE

Not determined

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Disorders of the liver and kidneys

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

None

NTP

YES  NO

IARC

YES  NO

OSHA

YES  NO

### OTHER EXPOSURE LIMITS

Not determined

### EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with water for 15 minutes. Seek medical attention if irritation persists. SKIN CONTACT: Remove contaminated clothing; flush with water for several minutes. Seek medical attention if irritation persists. INGESTION: Seek medical attention immediately, do not induce vomiting. INHALATION: Remove victim to fresh air; if not breathing administer artificial respiration. Seek medical attention immediately.

## SECTION 6 - REACTIVITY DATA

STABILITY	CONDITIONS TO AVOID
<input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	High temperatures

### INCOMPATIBILITY (Materials to Avoid)

Not determined

### HAZARDOUS DECOMPOSITION PRODUCTS

Not determined

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

## SECTION 7 - SPILL OR LEAK PROCEDURES

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

Don protective equipment if needed, (see Section 8). Contain spill with an absorbent material and sweep into labeled container for disposal.

### WASTE DISPOSAL METHOD

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

## SECTION 8 - PERSONAL PROTECTION INFORMATION

### RESPIRATORY PROTECTION

Not required under conditions of normal intended use.

### VENTILATION

Use in well ventilated area.

### PROTECTIVE GLOVES

If skin contact is likely to occur

### EYE PROTECTION

Safety goggles

### OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Not determined

## SECTION 9 - SPECIAL PRECAUTIONS

### PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Not determined

### OTHER PRECAUTIONS

Not 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.