

**Material
Safety
Data
Sheet**
ferti-lome® 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: 03-14-03
Common Name (Used on Label): ferti-lome® Liquid Iron Chelated	Chemical Family: Does not apply
Chemical Name: Does not apply	Formula: Mixture of iron, zinc, manganese and copper salts.
Trade Name & Synonyms: ferti-lome® 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/m ³	(C) 5.0 mg/m ³
Copper (mist) [1]	7440-50-8	0.125	1.0 mg/m ³	1.0 mg/m ³
(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 ₂ 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: <u>Not established</u> Upper: <u>Not established</u>	
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 <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 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 induce vomiting. INHALATION: Remove victim to fresh air; if not breathing administer artificial respiration. Seek medical attention immediately.		

SECTION 6 - REACTIVITY DATA

STABILITY <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	CONDITIONS TO AVOID High temperatures
INCOMPATIBILITY (Materials to Avoid) Not determined	
HAZARDOUS DECOMPOSITION PRODUCTS Not determined	
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> 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 Wear 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.