

**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 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

☐ 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 induce vomiting. INHALATION: Remove victim to fresh air; if not breathing administer artificial respiration. Seek medical attention immediately.

SECTION 6 - REACTIVITY DATA

STABILITY

☐ Unstable ☒ Stable

CONDITIONS TO AVOID

High temperatures

INCOMPATIBILITY (Materials to Avoid)

Not determined

HAZARDOUS DECOMPOSITION PRODUCTS

Not determined

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

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.