

Material Safety Data Sheet

**Material
Safety
Data
Sheet****ferti-lome® Halt™ Systemic****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® Halt™ Systemic	Chemical Family: Mixture
Chemical Name: Dimethyl-4,4' -o-phenylenebis-3-thioallophanate	Formula: C12-H14-N4-O4-S2
Trade Name & Synonyms: ferti-lome® Halt™ Systemic EPA # 1001-63-7401	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Dimethyl-4,4' -o-phenylenebis-3-thioallophanate	23564-05-8	46.2	Not established	Not established
Inert ingredients	Not available	53.8	Not available	Not available

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) 100 degrees C	SPECIFIC GRAVITY (H ₂ O=1) 1.171	VAPOR PRESSURE (mm Hg) Not available
PERCENT VOLATILE BY VOLUME (%) Not available	VAPOR DENSITY (AIR=1) Not determined	EVAPORATION RATE (ethyl ether=1) Not available
SOLUBILITY IN WATER Dispersible		REACTIVITY IN WATER Will not evolve flammable or toxic gases
APPEARANCE AND ODOR Off-white liquid suspension		

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (°F) Not flammable	FLAMMABLE LIMITS IN AIR (% by volume) Lower: Not applicable Upper: Not applicable
EXTINGUISHING MEDIA Carbon dioxide, foam, water	AUTO IGNITION TEMPERATURE Not applicable
UNUSUAL FIRE AND EXPLOSION HAZARDS None determined	
SPECIAL FIRE FIGHTING PROCEDURES	

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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

Eye and Skin contact, inhalation, ingestion

SIGNS AND SYMPTOMS OF EXPOSURE

(1) ACUTE OVEREXPOSURE

May be irritating to the eyes, nose, throat. May cause dermatitis, headache and nausea.

(2) CHRONIC OVEREXPOSURE

None determined

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Disorders of the skin, eyes, nose and throat.

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

EYES: Flush eyes with a copious amount of water for at least 15 minutes. Seek medical attention if irritation persists. SKIN: Wash exposed areas of skin with soap and warm water. Contaminated clothing, including footwear, should be thoroughly cleaned before reuse. INHALATION: Remove to fresh air. INGESTION: Induce vomiting as soon as possible by tickling the back of the throat with the finger or other blunt object. Seek medical attention immediately. SPECIAL PRECAUTIONS: For allergic reactions contact a physician immediately.

SECTION 6 - REACTIVITY DATA

STABILITY	CONDITIONS TO AVOID
<input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	None

INCOMPATIBILITY (Materials to Avoid)

Highly alkaline materials, oxidizing agents, lime, sulfur, Bordeaux mixture, copper compounds.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition generates oxides of nitrogen, sulfur, and carbon.

HAZARDOUS POLYMERIZATION	CONDITIONS TO AVOID
<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not occur	None

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED

Sweep up and dispose of in compliance with RCRA and all Federal, State, and local laws.

WASTE DISPOSAL METHOD

Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. See Section 9.

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SECTION 8 - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

NIOSH/MSHA approved respiratory devices to protect against organic pesticides

VENTILATION

Use only outdoors or in well-ventilated area.

PROTECTIVE GLOVES

Utilize rubber gloves or other impermeable gloves.

EYE PROTECTION

Chemical goggles or safety glasses with side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

When necessary, utilize impervious clothing and other equipment to prevent skin contact with this substance.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Store in original, labeled, sealed containers in a cool dry area not accessible to children and unauthorized persons.

OTHER PRECAUTIONS

If wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA office.

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.