

MATERIAL SAFETY DATA SHEET



In the event of a medical or chemical emergency contact
ChemTel, Inc. North America 1-800-255-3924 or worldwide
Intl. + 01-813-248-0585

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

Effective Date: January 1, 2012

Ferti-lome Liquid Systemic Fungicide II

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Ferti-lome Liquid Systemic Fungicide II
EPA Reg. No.: 53883-184-7401

COMPANY IDENTIFICATION:

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

2. COMPOSITION / INFORMATION ON INGREDIENTS:

Chemical Name	Wt. %	CAS#
Propiconazole	1.55	60207-90-1
Other Ingredients	98.45	

3. HAZARDOUS IDENTIFICATION:

PHYSICAL APPEARANCE: Clear light-amber liquid

IMMEDIATE CONCERNS: KEEP OUT OF REACH OF CHILDREN - May cause eye and skin irritation. Avoid contact with eyes, skin, or clothing. Toxic to fish and aquatic organisms - Do not contaminate water when disposing of equipment wash waters. Keep out of lakes, streams, or ponds, drains and any other water sources.

POTENTIAL HEALTH EFFECTS

EYES: This substance is a moderate eye irritant and causes substantial but temporary eye injury. The degree of the injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment. Signs and symptoms of overexposure may include discomfort, irritation and redness, and blurred vision.

SKIN: This substance may cause skin irritation on prolonged or frequently repeated contact. If absorbed through the skin, this substance is considered practically non-toxic to internal organs.

INGESTION: If swallowed, this substance is considered practically non-toxic to internal organs.

INHALATION: Overexposure to spray mist may result in minor irritation of the upper respiratory tract.

4. FIRST AID:

EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

SKIN: If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Never give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: Propiconazole has no specific antidote if ingested. Treat symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT AND METHOD: N/A

AUTOIGNITION TEMPERATURE: N/A

EXTINGUISHING MEDIA: CO2, dry chemical, and foam.

HAZARDOUS COMBUSTION PRODUCTS: N/A

FIRE FIGHTING PROCEDURES: Firefighters and others that may be exposed to vapors, mists, or products of combustion should wear full protective clothing and self-contained breathing apparatus. Equipment should be thoroughly cleaned after use.

HAZARDOUS DECOMPOSITION PRODUCTS: No known hazardous decomposition products.

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6. ACCIDENTAL RELEASE MEASURES:

SMALL SPILL: While wearing rubber gloves, soak up spills with absorbent material and sweep up and place in trash.

LARGE SPILL: Liquid spills on floor or other impervious surfaces should be contained or diked, and should be absorbed with Oil Dry, cat litter, clay, rags or other absorbent. Collect contaminated absorbent, place in disposable container and dispose of in accordance with instructions provided under Section 13 "DISPOSAL". Thoroughly scrub floor or other impervious surface with a strong industrial type detergent solution and rinse with water. Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under Section 13 "Disposal". Any recovered spilled liquid should be similarly collected and disposed of.

7. HANDLING AND STORAGE:

HANDLING: See label. Wash hands with soap and water after handling product. Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Do not contaminate water when disposing of equipment wash waters. Keep out of lakes, streams, or ponds.

STORAGE: KEEP OUT OF REACH OF CHILDREN Store in a cool, dry area away from incompatible materials and heat sources. Store away from feed and foodstuffs, as well as household cleaning products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

ENGINEERING CONTROLS: Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

PERSONAL PROTECTION

EYES AND FACE: When handling the concentrate or applying the diluted product, wear goggles or face shield.

SKIN: Wear protective clothing when handling or applying this product including long pants, long sleeved shirt, socks and shoes. Remove contaminated clothing and launder separately before reuse. Promptly and thoroughly wash hands and exposed skin with soap and water after using this product.

RESPIRATORY: Avoid breathing vapor or mist. Use NIOSH/MSHA approved respiratory protection equipment (full facepiece recommended) when airborne exposure limits are exceeded (see below). If used, full facepiece replaces need for chemical goggles. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 C.F.R. 1910.134. For application of product in accordance with label instructions, no special respiratory protection is required.

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

EXPOSURE LIMITS

Chemical Name	OSHA PEL	ACGIH TLV	ACGIH STEL
Propiconazole	None	None	None

9. PHYSICAL AND CHEMICAL PAROPERTIES:

PHYSICAL STATE: Liquid

ODOR: Latex odor

APPEARANCE: Light amber liquid

pH: 5 - 6 (1% solution in H₂O @ 25°C)

PERCENT VOLATILE: No Data Available

VAPOR PRESSURE: No Data Available

VAPOR DENSITY: No Data Available

BOILING POINT: No Data Available

FREEZING POINT: < 25°F

MELTING POINT: Not Applicable

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SOLUBILITY IN WATER: Soluble
SPECIFIC GRAVITY: 1.02
VISCOSITY: 2.81 @ 68 °F

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: No data available.
STABILITY: Stable.
POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION: None known

11. TOXICOLOGICAL INFORMATION:

EYE EFFECTS: Technical grade propiconazole is considered slightly irritating to eyes (rabbit).
SKIN EFFECTS: Technical grade propiconazole is considered non-irritating to skin (rabbit).
ACUTE
EYES: Moderately irritating (rabbit) based on a similar formulation.
DERMAL LD50: >2,020 mg/kg body weight based on data for a similar formulation.
ORAL LD50: 4,340 mg/kg body weight based on data from a similar formulation.
INHALATION LC50: The 4-hour inhalation LC50 is >2.6 mg/L air based on data for a similar formulation.
SENSITIZATION: Propiconazole is not a dermal sensitizer.
TARGET ORGANS: The liver is a possible target organ for propiconazole.
CARCINOGENICITY:
IARC: No
NTP: No
OSHA: No
CARCINOGENICITY COMMENTS: Increased incidence of liver tumors have been observed in male mice given extremely high doses of propiconazole.
TERATOGENICITY: Propiconazole is not considered teratogenic.
REPRODUCTIVE TOXIN: The active ingredient in this product has not been associated with adverse reproductive effects.

12. ECOLOGICAL INFORMATION:

ENVIRONMENTAL DATA: Propiconazole is toxic to fish, has low toxicity to wildlife, and is nontoxic to bees.
CHEMICAL FATE INFORMATION: Propiconazole is stable in sterile water in the dark at pH 5, 7, and 9. Degradation in light varies from slow in water (t1/2=249d @ pH 7 to variable in soil (t1/2 ~ 53d to stable). Degradation in soil, in the dark is moderate under aerobic conditions (t1/2 >1 yr.). Medium to low mobility in various soils (Koc 382 to 1134).

13. DISPOSAL CONSIDERATIONS:

FOR LARGE SPILLS: Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.
PRODUCT DISPOSAL: Carefully follow all label directions and precautions. If necessary to dispose of partially filled container, then securely wrap it in several layers of newspaper and discard in trash.
EMPTY CONTAINER: Do not reuse container. Wrap empty container in several layers of newspaper and discard in trash.

14. TRANSPORT INFORMATION:

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated

SPECIAL SHIPPING NOTES: The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity specific shipping requirements.

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15. REGULATORY INFORMATION:

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA

ACUTE: YES

FIRE: NO

REACTIVITY: NO

PRESSURE GENERATING: NO

313 REPORTABLE INGREDIENTS: Propiconazole (1.55%) (CAS No. 60207-90-1).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA RQ: None

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All non FIFRA regulated components are on the US EPA's TSCA Inventory List.

16. OTHER INFORMATION:

HMIS CODES

FIRE: 0 HEALTH: 2 REACTIVITY: 0 PROTECTION:-

NFPA CODES

FIRE: 0 HEALTH: 2 REACTIVITY: 0 SPECIAL:-

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED, IS MADE. CONSULT VPG, INC. FOR FURTHER INFORMATION.