



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Ferti-lome Liquid Systemic Fungicide II

SECTION 1: Identification

GHS Product identifier

Product name	Ferti-lome Liquid Systemic Fungicide II
Product number	11377; 11378
Brand	Ferti-lome

Other means of identification

EPA Reg. No.: 53883-184-7401

Recommended use of the chemical and restrictions on use

Triazone derivative fungicide

Supplier's details

Name	Voluntary Purchasing Groups, Inc.
Address	230 FM 87 Bonham TX 75418 USA
Telephone	855-270-4776

Emergency phone number

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

SECTION 2: Hazard identification

General hazard statement

Avoid breathing mist, vapors and spray. Use only outdoors or in a well-ventilated area. In inhaled: remove a person to fresh air and keep comfortable for breathing. If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice. Contact Safety Call
® International for emergency medical treatment at (866) 897-8050.

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2012)

- Acute toxicity, inhalation, Cat. 4
- Eye damage/irritation, Cat. 2B

GHS label elements, including precautionary statements

Pictograms

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Signal word

Warning

Hazard statement(s)

H332
H320

Harmful if inhaled
Causes eye irritation

Precautionary statement(s)

P261
P271
P304+P340

P312
P264
P305+P351+P338

Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor/.../ if you feel unwell.
Wash ... thoroughly after handling.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Keep out of reach of children.
Read label before use.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Propiconazole (CAS no.: 60207-90-1; EC no.: 262-104-4; Index no.: 613-205-00-0)	1.55 %
CLASSIFICATIONS: Acute toxicity, Cat. 4; Sensitization, skin, Cat. 1; Hazardous to the aquatic environment, short-term (acute), Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 1. HAZARDS: H302 - Harmful if swallowed; H317 - May cause an allergic skin reaction; H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled

- 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.

In case of skin contact

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for further treatment advice.

In case of eye contact

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

If swallowed

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

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Most important symptoms/effects, acute and delayed

No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Note to Physician: If ingested, induce emesis or lavage stomach. Treat symptomatically.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You

may also contact SafetyCall® at (866) 897-8050 for emergency medical treatment information.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Water fog, CO2, foam, dry chemical.

Specific hazards arising from the chemical

Pesticide fires have potential to produce irritating or toxic gases.

Special protective actions for fire-fighters

Isolate fire area and evacuate downwind. DO NOT breathe gases, smoke or vapors generated. Wear self-contained breathing apparatus and full-protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Clean up spills immediately. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Methods and materials for containment and cleaning up

SMALL SPILL: Absorb small spills or sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

LARGE SPILL: Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. Pick up wash liquid with additional absorbent and place in a disposable container. After removal, flush contaminated area thoroughly with water. This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

SECTION 7: Handling and storage

Precautions for safe handling

Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Carefully open containers and after partial use close container tightly. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Store upright at room temperature. Avoid exposure to extreme temperatures.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

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Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Chemical goggles or full face shield.

Skin protection

CLOTHING – Long-sleeved shirt and long pants, shoes plus socks, Chemical resistant apron when cleaning equipment, mixing, or loading.

GLOVES – Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), viton.

Body protection

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Respiratory protection

For most conditions, no respiratory protection should be needed; however, if handling without sufficient ventilation, use NIOSH approved air-purifying respirator with any N, P or R95 class filter and an organic vapor cartridge.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Light amber liquid
Odor	Latex odor
Odor threshold	None known
pH	5 – 6 (1% solution in H ₂ O@25°C)
Melting point/freezing point	No information available.
Initial boiling point and boiling range	No information available.
Flash point	92°C (165°F) (TCC)
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapor pressure	No information available.
Vapor density	No information available.
Relative density	1.09 g/ml (9.1 lb/gl)
Solubility(ies)	Dispersible.
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity	2.81 @ 68°F (20°C)

Additional properties

Physical state	Liquid
Color	Light amber

SECTION 10: Stability and reactivity

Reactivity

Unknown.

Chemical stability

Stable under normal conditions.

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Possibility of hazardous reactions

HAZARDOUS POLYMERIZATION: Will not occur.

Conditions to avoid

Avoid excessive heat.

Incompatible materials

Alkaline and acidic conditions and materials,
Oxidizing materials.

Hazardous decomposition products

Unknown.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Oral LD50 (Rat): > 4,340 mg/kg

Acute Dermal LD50 (Rabbit): > 2,020 mg/kg

Acute Inhalation LC50 (Rat): > 2.6 mg/L/4 hr

Eye Irritation: Moderately irritating

Skin Irritation: Non-irritating

Dermal Sensitization: Not a skin sensitizer

Skin corrosion/irritation

Skin Irritation: Non-irritating

Dermal Sensitization: Not a skin sensitizer

Serious eye damage/irritation

Eye Irritation: Moderately irritating

Respiratory or skin sensitization

Skin Irritation: Non-irritating

Dermal Sensitization: Not a skin sensitizer

Germ cell mutagenicity

No evidence of effects during in vivo or in vitro studies.

Carcinogenicity

Long-term exposure of mice to high dose levels of propiconazole produced an increase in liver tumors in male mice.

Propiconazole is not considered to be carcinogenic.

Reproductive toxicity

None observed.

Specific target organ toxicity (STOT) - single exposure

Target Organs: (Propiconazole Technical) Liver, skin, eye

Specific target organ toxicity (STOT) - repeated exposure

Target Organs: (Propiconazole Technical) Liver, skin, eye

Aspiration hazard

No information available.

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SECTION 12: Ecological information

Toxicity

This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water.

ECO-ACUTE TOXICITY: (Propiconazole Technical)

Rainbow Trout LC50 (96 h) – 5.2 mg/l

Daphnia magna LC50 (48 h) – 3.2 mg/l

Green Algae 5-Day EC50 – 1.6 ppm

Bobwhite Quail 8-day Dietary LC50 – >5,620 ppm

Mallard Duck 8-day Dietary LC50 – >5,620 ppm

ECO-CHRONIC TOXICITY:

Fish (Fathead minnow) Early Life State MATC - >0.43 and <0.97 mg/L

Invertebrate (Daphnia Magna) Life Cycle MATC - >0.31 and <0.69 mg/L

Mallard Reproduction NOBC - 300 ppm

Bobwhite Reproduction NOEC - 1,000 ppm

Persistence and degradability

Stable in sterile water, in the dark at pH 5, 7 and 9. Degradation in the light varies from slow in water (1/2=249) @ pH7)

to variable in soil (1/2-53d to stable). Degradation in soil, in the dark is moderate under aerobic (1/2-43 to 70 d) and aquatic (1/2-15-113d) conditions. Stable under anaerobic aquatic conditions (1/2->1yr). Medium to low mobility in various soils (Koc 382 to 1134). Some bioaccumulation (BCF=203X, whole fish).

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

Packaging disposal

Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

SECTION 14: Transport information

DOT (US)

Not Regulated.

IMDG

Not Regulated.

IATA

Not Regulated.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Massachusetts Toxic Use Reduction Act (TURA) list

Chemical name: 1-(2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)-methyl-1h-1,2,4,-triazole

CAS number: 60207-90-1

TRI listing: X-reportable; CERCLA listing: unlisted; TURA-only listing: no; de minimis concentration threshold: 1 percent. Changes: Added to TURA and TRI RY1995

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New Jersey Right To Know Components

Common name: Propiconazole
CAS number: 60207-90-1

Water hazard class (WGK, Germany)

Chemical name: Propiconazole, cas number: 60207-90-1
WGK hazard class: WGK 3 - Extremely hazardous to water

Minnesota Chemicals of High Concern (Minn. Stat. 116.9401)

Chemical name: Propiconazole
CAS number: 60207-90-1
Hlth: eyes, gastrointestinal system

Labeling requirements under FIFRA

Product name: Ferti-lome Liquid Systemic Fungicide II

SARA 311/312 Hazards

Product name: Ferti-lome Liquid Systemic Fungicide II

SARA 313 Components

Product name: Ferti-lome Liquid Systemic Fungicide II

HMIS Rating

Ferti-lome Liquid Systemic Fungicide II	
HEALTH	2
FLAMMABILITY	
PHYSICAL HAZARD	
PERSONAL PROTECTION	

NFPA Rating



SECTION 16: Other information

Further information/disclaimer

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