



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Ferti-lome F-Stop Lawn & Garden Fungicide Concentrate

SECTION 1: Identification

GHS Product identifier

Product name	Ferti-lome F-Stop Lawn & Garden Fungicide Concentrate
Product number	10764
Brand	Ferti-lome

Other means of identification

EPA Reg. No. 7401-505

Recommended use of the chemical and restrictions on use

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

Classification of the substance or mixture

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

Not a hazardous substance or mixture.

GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

Mixtures

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Hazardous components

Component	Concentration
Myclobutanil (CAS no.: 88671-89-0; EC no.: —; Index no.: 613-134-00-5)	95 %
CLASSIFICATIONS: Toxic to reproduction, Cat. 2; Acute toxicity, Cat. 4; Serious eye damage/eye irritation, Cat. 2; Hazardous to the aquatic environment, long-term (chronic), Cat. 2. HAZARDS: H302 - Harmful if swallowed; H319 - Causes serious eye irritation; H361d - ; H411 - Toxic to aquatic life with long lasting effects.	
Impurities associated with the active ingredient	4.5 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Keep out of reach of children.
If inhaled	Move person to fresh air; if effects occur, consult a physician.
In case of skin contact	Wash skin with plenty of water.
In case of eye contact	Immediately flush eyes with water; remove contact lenses, if present after the first 5 minutes. then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferable from an ophthalmologist.
If swallowed	Call a poison control center or doctor immediately for treatment advise. Have a 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. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

No information available

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

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Carbon dioxide, dry chemical and water spray.

Specific hazards arising from the chemical

Pesticide particulates can become airborne. Combustion generates toxic fumes of the following hydrogen chloride.

Special protective actions for fire-fighters

Wear self-contained breathing apparatus (pressure demand NIOSH approved or equivalent) and full protective gear.

Contain run-off. Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment when handling a spill of this material.

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Methods and materials for containment and cleaning up

ACTION TO TAKE FOR SPILLS/LEAKS: sweep up small spills and place in a suitable container or disposal. Report large spills to CHEMTREC 800-424-9300. Keep dust to a minimum. Keep out of sewers and open bodies of water. Wear appropriate protective equipment when handling a spill of this material. If exposed to material during clean-up operations see Section 4 for actions to follow. Remove all contaminated clothing promptly. Wash all exposed skin areas with soap and water immediately after exposure. Thoroughly launder clothing before reuse. Do not take clothing home to be laundered.

SECTION 7: Handling and storage

Precautions for safe handling

Keep out of reach of children. Avoid eye contact. Wash thoroughly with soap and water after handling. Do not swallow. Do not store this material near food, feed, or drinking water. Store in a well-ventilated area. Store in a dry area with the container tightly closed when not in use. Store out of direct sunlight in a cool place.

Conditions for safe storage, including any incompatibilities

Store product in a cool, dry place, out of reach of children. Keep container closed when not in use. Keep away from food, drink and animal feedingstuffs. Keep tightly closed. Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

General ventilation normally adequate.

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

Eye/face protection

During application, prevent entry into eyes. Wear safety glasses with side shields if using in large applications.

Skin protection

None required

Respiratory protection

For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use a NIOSH approved air-purifying respirator.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	White to yellow liquid.
Odor	Minimal
Odor threshold	None known
pH	No information available
Melting point/freezing point	145-154°F (63-68°C)
Initial boiling point and boiling range	396-406°F (202-208°C) @ 1 mm Hg
Flash point	No information available
Evaporation rate	Not applicable
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	1 mm Hg@392°F (200°C)
Vapor density	Not applicable

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Relative density	1.05
Solubility(ies)	142 ppm @ 77°F (25°C)
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available

Additional properties

Physical state	Liquid
Color	White to yellow

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

HAZARDOUS POLYMERIZATION: Not known to occur.

Conditions to avoid

Do not mix with other chemicals.

Incompatible materials

Avoid contact with strong oxidizing agents, particularly concentrated nitric acid.

Hazardous decomposition products

Thermal decomposition may yield the following: Hydrogen chloride.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute LC50 in bluegill (*Lepomis macrochirus*) is 2.4-4.1 mg/L.

Acute LC50 in rainbow trout (*Oncorhynchus mykiss*) is 4.2 mg/L.

Acute LC50 in water flea (*Daphnia magna*) is 11 mg/L.

Maximum acceptable toxicant concentration (MATC) in fish early life-stage study is between 0.98-2.2 mg/L.

Growth inhibition EC50 in green alga (*Selenastrum capricornutum*) is 1.0 mg/L.

Growth inhibition EC50 in alga (*Scenedesmus* sp.) is 2.655 mg/L.

Acute immobilization EC50 in water flea (*Daphnia magna*) is 17 mg/L.

Acute LC50 in sheepshead minnow (*Cyprinodon variegatus*) is 4.7 mg/L.

Acute LC50 in saltwater mysid (*Mysidopsis bahia*) is 0.24 mg/L.

Acute EC50 in shell deposition inhibition in Eastern oyster (*Crassostrea virginica*) is 0.72 mg/L.

Material is practically non-toxic to birds on a dietary basis (LC50 is >5000 ppm).

Dietary LC50 in bobwhite (*Colinus virginianus*) is >5000 ppm.

Dietary LC50 in mallard (*Anas platyrhynchos*) is >5000 ppm.

Material is slightly toxic to birds on an acute basis (LD50 is between 501 and 2000 mg/kg).

Acute oral LD50 in bobwhite (*Colinus virginianus*) is 510 mg/kg.

Acute contact LD50 in honeybee (*Apis mellifera*) is >100 ug/bee.

Skin corrosion/irritation

LD50 > 5000 mg/kg (EPA tox. category IV)

Serious eye damage/irritation

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Causes moderate eye irritation (EPA tox. category III)

Respiratory or skin sensitization

LC50 > 2 mg/L (EPA tox. category IV)

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

In-vitro and animal genetic toxicity studies were negative.

Specific target organ toxicity (STOT) - single exposure

No data available

Specific target organ toxicity (STOT) - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information

Toxicity

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Persistence and degradability

Not established.

Other adverse effects

Material is highly toxic to aquatic organisms on an acute basis (LC50 or EC50 is between 0.1 and 1 mg/L in the most sensitive species tested).

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Wastes resulting from the use of this product may be disposed of on site according to label

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directions or at an approved waste disposal facility. Follow all local, state and federal requirements for disposal.

Packaging disposal

Dispose in a safe manner in accordance with local/national regulations.

Other disposal recommendations

Avoid release to the environment.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

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

California Prop. 65 components

Chemical name: Myclobutanil

CAS number: 88671-89-0

04/16/1999 - developmental, male

04/16/1999 - Developmental toxicity

04/16/1999 - Male reproductive toxicity

EPA

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: CAUTION: Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Avoid breathing vapor or spray mist. Remove and wash contaminated clothing before reuse. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

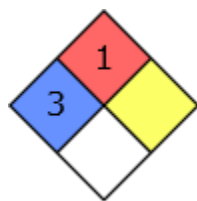
SARA 313 Components

Product name: Ferti-lome F-Stop Lawn & Garden Fungicide Concentrate

Toxic Substances Control Act (TSCA) Inventory

Product name: Ferti-lome F-Stop Lawn & Garden Fungicide Concentrate

NFPA Rating



SECTION 16: Other information

Further information/disclaimer

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