



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Ferti-lome Fungicide 5

SECTION 1: Identification

GHS Product identifier

Product name	Ferti-lome Fungicide 5
Product number	16112
Brand	Ferti-lome

Other means of identification

EPA Reg. No. 70051-107-7401

Recommended use of the chemical and restrictions on use

Residential 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

General hazard statement

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

Classification of the substance or mixture

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

GHS label elements, including precautionary statements

Hazard statement(s)

H317	May cause an allergic skin reaction
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Precautionary statement(s)

P102	Keep out of reach of children.
P103	Read label before use.
P264	Wash hands thoroughly after handling.

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Other hazards which do not result in classification

Do not apply directly to water or to areas where surface water is present, or to intertidal areas below mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Do not apply when weather conditions favor drift or runoff from treated areas.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Bacillus amyloliquefaciens (CAS no.: 68038-60-8)	98.85 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	Remove individual to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call poison control center or doctor for further advice. Have the product label with you when calling a poison control center or doctor.
In case of skin contact	Remove contaminated clothing and wash affected area with plenty of soap and water. If irritation persists call poison control or doctor for treatment advice
In case of eye contact	Immediately flush with water holding eye open for 15-20 minutes. Remove contact lenses after 5 minutes if present and continue rinsing eye. Seek medical attention if irritation persists.

Most important symptoms/effects, acute and delayed

May cause an allergic reaction in some individuals

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

The active ingredient contained in this product has a high affinity for activated charcoal. In case of ingestion of large amounts, administrate 5 mg/kg activated charcoal suspension (50g/400mL water).

SECTION 5: Fire-fighting measures

Suitable extinguishing media

All extinguishing media

Specific hazards arising from the chemical

Hazardous combustion products: None known

Special protective actions for fire-fighters

Protection of Firefighters: None known

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel: Use personal protections as indicated in Section 8.
For emergency responders: Use personal protections as indicated in Section 8.

Environmental precautions

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local and national health and environmental regulations.

Methods and materials for containment and cleaning up

Recover free product. Use absorbent material to minimize runoff of product or mixed product. Sweep up and place in a chemical container. Seal the container and handle in an approved manner. Do not allow wash water to contaminate water supplies. Dispose of in accordance with Federal State and local regulations for disposal of non-hazardous waste.

Reference to other sections

Section 8.

SECTION 7: Handling and storage

Precautions for safe handling

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
Remove clothing/PPE immediately if pesticides got inside. Then wash thoroughly and put on clean clothing.
Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Conditions for safe storage, including any incompatibilities

Store pesticide in a cool dry area that is inaccessible to children. Store in original containers only. Keep container closed when not in use.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Use in well ventilated area

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

Eye/face protection

Wear approved goggles

Skin protection

Long sleeved shirt and long pants

Body protection

Repeated exposure to high concentrates of microbial proteins can cause allergic sensitization.
Wash clothing and PPE using manufacturer's instructions immediately after use and before reuse.

Respiratory protection

Mixer loaders and applicators must wear a dust/mist respirator meeting NIOSH standards of at least N-95, R- 95, or P95.

Environmental exposure controls

Do not apply directly to water or to areas where surface water is present or intertidal areas below high water mark.
Do not contaminate water when disposing of equipment wash water or rinsate. Do not apply when weather conditions favor drift or run off from treated areas.

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SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Tan liquid
Odor	None known
Odor threshold	No information available.
pH	4-5
Melting point/freezing point	32°F
Initial boiling point and boiling range	212°F
Flash point	No information available.
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	8.55 lbs/gal
Solubility(ies)	No information available.
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	376°C (@ atmospheric pressure)
Decomposition temperature	No information available.
Viscosity	No information available.
Additional properties	
Physical state	Liquid
Color	Yeast like

SECTION 10: Stability and reactivity

Reactivity

Stable

Chemical stability

Stable

Possibility of hazardous reactions

None known

Conditions to avoid

None known

Incompatible materials

None known

Hazardous decomposition products

None known

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

LD50 (oral)

LD50 > 5000 mg/kg body weight rat, test results based on similar product containing the same active ingredient.

LD50 (dermal)

LD50 > 5050 mg/kg body weight rat, test results based on similar product containing the same active ingredient.

LC50 (inhalation)

LC50 > 2.18 mg/L, test results based on similar product containing the same active ingredient

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Skin corrosion/irritation

Non-irritating, Toxicity Category IV

Serious eye damage/irritation

No positive effects exhibited in any eyes after treatment Practically non-irritating, Toxicity Category IV

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No information available.

Carcinogenicity

NTP Listed: Not applicable.

IARC Listed: Not applicable.

OSHA: Not applicable.

Reproductive toxicity

No information available.

Specific target organ toxicity (STOT) - single exposure

No information available.

Specific target organ toxicity (STOT) - repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION 12: Ecological information

Toxicity

Bacillus amyloliquefaciens

LD50 Oral - Northern Bobwhite

Result: 2250 mg/kg body weight

Bacillus amyloliquefaciens

LC50 Oral - Oncorhynchus mykiss (rainbow trout) - 30 days

Result: 8.1×10^{10} CFU/L

Bacillus amyloliquefaciens

EC50 Oral - Daphnia magna (water flea) - 21 days

Result: 2.3×10^{10} CFU/L

Bacillus amyloliquefaciens

LC50 Oral - Apis mellifera - 48 hours

Result: 1.0×10^9 CFU/mL

Persistence and degradability

The active substance B. amyloliquefaciens D747 populations spreading to the environment during or after field application will rapidly decline to naturally occurring background levels.

Bioaccumulative potential

The active substance B. amyloliquefaciens D747 does not multiply and accumulate in animals and humans.

Mobility in soil

The active substance B. amyloliquefaciens D747 spores readily adsorb to the clay fractions in soils and show no evidence of leaching. Therefore the risk of ground water contamination is considered negligible.

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SECTION 13: Disposal considerations

Disposal methods

Product disposal

Do not contaminate water, food, or feed by storage and disposal.

Packaging disposal

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the contain ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

US EPA TSCA public inventory

Chemical name: Bacillus amyloliquefaciens

CAS number: 68038-60-8

Labeling requirements under FIFRA

Product name: Ferti-lome Fungicide 5

SECTION 16: Other information

Further information/disclaimer

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