



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Ferti-lome Spinosad

SECTION 1: Identification

GHS Product identifier

Product name	Ferti-lome Spinosad
Product number	16062; 16063
Brand	Ferti-lome

Other means of identification

EPA Reg. No. 62719-314-7401

Recommended use of the chemical and restrictions on use

Residential use insecticide

Supplier's details

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

Telephone	855-270-4776
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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, 2012)

- Eye damage/irritation, Cat. 2A

GHS label elements, including precautionary statements

Pictograms



Signal word

Warning

Hazard statement(s)

H319

Causes serious eye irritation

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Precautionary statement(s)

P264	Wash ... thoroughly after handling.
P280	Wear eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P102	Keep out of reach of children.
P103	Read label before use.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Spinosad (CAS no.: 131929-60-7)	0.5 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Propylene glycol (CAS no.: 57-55-6; EC no.: 200-338-0)	15 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Balance	84.5 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	If potential for exposure exists refer to Section 8 for specific personal protective equipment.
If inhaled	Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for 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 treatment advice.
In case of eye contact	Hold eyes open and rinse slowly and gently with water for 15-20 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. Suitable emergency eye wash facility should be available in work area.
If swallowed	No emergency medical treatment necessary.

Most important symptoms/effects, acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

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

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No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam.

Specific hazards arising from the chemical

Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

Special protective actions for fire-fighters

Keep people away. Isolate fire and deny unnecessary entry. To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

Further information

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. Spills or discharge to natural waterways is likely to kill aquatic organisms.

Methods and materials for containment and cleaning up

Contain spilled material if possible. Small spills: Absorb with materials such as: Clay. Dirt. Sand. Sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Dow AgroSciences for clean-up assistance. See Section 13, Disposal Considerations, for additional information.

SECTION 7: Handling and storage

Precautions for safe handling

Keep out of reach of children. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Do not swallow. Wash thoroughly after handling. Use with adequate ventilation. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for safe storage, including any incompatibilities

Store in a dry place. Store in original container. Keep container tightly closed when not in use. Do not store near food, foodstuffs, drugs or potable water supplies.

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SECTION 8: Exposure controls/personal protection

Control parameters

1. Propylene glycol (CAS: 57-55-6 EC: 200-338-0)

TWA (Inhalation): 10 mg/m³; USA (OSHA)

USA. Workplace Environmental Exposure Levels (WEEL)

Appropriate engineering controls

Exposure limits are listed below.

Spinosad - Dow IHG TWA - .03 mg/m³

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

Eye/face protection

Use chemical goggles.

Skin protection

Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could

occur. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other protection: Wear clean, body-covering clothing.

Respiratory protection

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Light Brown Liquid
Odor	Musty
Odor threshold	None known
pH	9.19
Melting point/freezing point	No information available.
Initial boiling point and boiling range	No information available.
Flash point	>212°F (>100°C) closed cup
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	1.017 at 20°C (68°F)/4°C Digital Density Meter
Relative density	1.09 g/ml
Solubility(ies)	No information available.
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.

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Decomposition temperature
Viscosity

No information available.
No information available.

Additional properties

Physical state
Color

Liquid
Light brown

SECTION 10: Stability and reactivity

Reactivity

No data available.

Chemical stability

Thermally stable at recommended temperatures and pressures.

Possibility of hazardous reactions

Polymerization will not occur.

Conditions to avoid

Active ingredient decomposes at elevated temperatures.

Incompatible materials

Propylene glycol: Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents

Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon monoxide. Carbon dioxide.

Propylene glycol: Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Propylene glycol

LD50 Oral - Rat - 20,000 mg/kg

LD50 Skin - Rabbit - 20,800 mg/kg

LD50 Intramuscular - Rat - 14 g/kg

LD50 Intravenous - Dog - 26 g/kg

LD50 Intraperitoneal - Rat - 6,660 mg/kg

LD50 Subcutaneous - Rat - 22,500 mg/kg

LD50 Intravenous - Rat - 6,423 mg/kg

LD50 Intraperitoneal - Mouse - 9,718 mg/kg

LD50 Subcutaneous - Mouse - 17,370 mg/kg

LD50 Intravenous - Mouse - 6,630 mg/kg

LD50 Intravenous - Rabbit - 6,500 mg/kg

Result: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NOEC - Pimephales promelas (fathead minnow) - 52,930 mg/l - 96 h

NOEC - Daphnia magna (water flea) - 13,020 mg/l - 48 h

EC50 - Daphnia magna (water flea) - >10,000 mg/l - 48 h

Skin corrosion/irritation

Essentially nonirritating to skin.

Repeated contact may cause flaking and softening of skin.

Serious eye damage/irritation

May cause eye irritation.

May cause slight corneal injury.

Respiratory or skin sensitization

For the active ingredient(s):

Did not cause allergic skin reactions when tested in guinea pigs.

Germ cell mutagenicity

No information available.

Carcinogenicity

For the active ingredient(s): For the minor component(s): Did not cause cancer in laboratory animals.

Reproductive toxicity

No information available.

Specific target organ toxicity (STOT) - single exposure

Available data are inadequate to determine single exposure specific target organ toxicity.

Specific target organ toxicity (STOT) - repeated exposure

For the active ingredient(s):

In animals, Spinosad has been shown to cause vacuolization of cells in various tissues.

Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use.

Aspiration hazard

Based on physical properties, not likely to be an aspiration hazard.

SECTION 12: Ecological information

Toxicity

Propylene glycol

LD50 Oral - Rat - 20,000 mg/kg

LD50 Skin - Rabbit - 20,800 mg/kg

LD50 Intramuscular - Rat - 14 g/kg

LD50 Intravenous - Dog - 26 g/kg

LD50 Intraperitoneal - Rat - 6,660 mg/kg

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ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NOEC - Pimephales promelas (fathead minnow) - 52,930 mg/l - 96 h

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Persistence and degradability

Biodegradability: Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD > 40%).

Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

10-day Window: Fail

Biodegradation: < 1 %

Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Mobility in soil

Spinosad A & D:

Potential for mobility in soil is low (Koc between 500 and 2000). Partition coefficient(Koc): 701 Measured

Propylene glycol:

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient(Koc): < 1 Estimated.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to

the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been

used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance

with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

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

New Jersey Right To Know Components

Common name: Propylene glycol

CAS number: 57-55-6

Pennsylvania Right To Know Components

Chemical name: 1,2-Propanediol

CAS number: 57-55-6

SARA 302 Components

No chemicals in this material [Propylene glycol] are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material [Propylene glycol] does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards for: Propylene glycol.

US EPA TSCA public inventory

Chemical name: 1,2-Propanediol

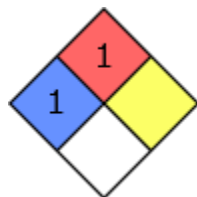
CAS number: 57-55-6

Water hazard class (WGK, Germany)

Chemical name: Propylene glycol, cas number: 57-55-6

WGK hazard class: WGK 1 - Slightly hazardous to water

NFPA Rating



SECTION 16: Other information

Further information/disclaimer

Voluntary Purchasing Groups, Inc. believes the information presented herein is accurate and correct as of the document date. The presented information is based upon available data from reliable sources. Voluntary Purchasing Groups, Inc. makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.