

MATERIAL SAFETY DATA SHEET

MONTEREY GARDEN INSECT SPRAY
— OMRI Listed —

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Issue Date: 07/05

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

MONTEREY GARDEN INSECT SPRAY

EPA Reg. No. 62719-314-54705

Common Name: Liquid insecticide.

Chemical Description: Spinosad.

TSCA/CAS No.: This product is a mixture – there is no specific CAS No.

Manufactured For

Lawn and Garden Products, Inc.

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 435-2163

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2. INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Spinosad Spinosyn A	131929-60-7	0.5	*N.A.	*N.P.
Spinosyn D	131929-63-0			
Inert Ingredients, Total Including:		99.5		
Propylene Glycol	57-55-6	Proprietary	N.A.	N.P.

* N.A. - Not Available.

* N.P. - Not Pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Tan liquid with musty odor. May cause eye and skin irritation. Toxic to marine mollusks, fish, aquatic invertebrates and bees. Not D.O.T. regulated.

HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 0 ENVIRONMENT: 0
(0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme)

SECTION 4. FIRST AID

Eyes: 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.

Skin: 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.

Ingestion: 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. Never give anything by mouth to an unconscious person.

SECTION 4. FIRST AID (Continued)

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

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

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point:	Not determined.
Test Method:	Not applicable.
LEL Flammable Limits:	Not determined (water-based product).
UEL Flammable Limits:	Not determined (water-based product).
Autoignition Temperature:	Not determined.
Flammability Classification:	Nonflammable.
Known Hazardous Products of Combustion:	Not known.
Properties that Initiate/Contribute to Intensity of Fire:	None.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds.
Extinguishing Media:	Water fog, carbon dioxide, dry chemical or foam.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and full protective clothing. Avoid smoke inhalation. Contain any liquid runoff.

SECTION 6. SPILLS AND LEAKS

Containment: Prevent product spillage from entering drinking water supplies or streams.

Clean Up: Collect liquid or absorb onto absorbent material and package for disposal.

Evacuation: Not necessary.

SECTION 7. STORAGE AND HANDLING

Storage: Store in original container only in a cool, well-ventilated, dry place at temperatures above 40°F. Do not store near food or feeds. Do not stack pallets more than two (2) high.

Transfer Equipment: Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.

Work/Hygienic Practices: Keep out of reach of children. Avoid contact with eyes, on skin or on clothing. Avoid breathing vapor or spray mists. Wear long-sleeved shirt and pants, waterproof gloves and shoes plus socks. Wash thoroughly with soap and water after handling and before eating, drinking, or smoking. Remove contaminated clothing and wash clothing before reuse. Do not contaminate feed and foodstuffs.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

Eyes: Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT (Continued)

Skin: Impervious gloves and clothes.
Respiratory: Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).
Ventilation: Recommended but no TLV established.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance: Tan liquid.
Odor: Musty.
pH: 9.0
Vapor Pressure: Similar to water.
Vapor Density (Air = 1): Not available.
Boiling Point: Not determined.
Freezing Point: Not available.
Water Solubility: Dispersible.
Density: 8.47 lbs./gal (Specific Gravity -1.0 g/ml)
Evaporation Rate: Not determined.
Viscosity: Not available.
% Volatile: Not available.
Octanol/Water Partition Coefficient: Not available.
Saturated Vapor Concentration: Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability: Thermally stable at typical use temperatures. Some components of this product can decompose at elevated temperatures.
Conditions To Avoid: None known.
Incompatibility: None known.
Hazardous Decomposition Products: Hazardous decomposition products depend on temperature, air supply, and the presence of other materials.
Hazardous Polymerization: Not known to occur.

SECTION 11. POTENTIAL HEALTH EFFECTS

Acute Effects:

Eyes: May cause slight eye irritation. Corneal injury is unlikely. May cause pain disproportionate to the level of irritation to eye tissues.
Skin: Prolonged contact may cause slight skin irritation with local redness. Prolonged skin contact is unlikely to result in absorption of harmful amounts. Did not cause allergic skin reactions when tested with guinea pigs. LD₅₀ (Rabbits) > 5000 mg/kg.
Ingestion: Very low toxicity if swallowed. The oral LD₅₀ for rats and mice is > 5000 mg/kg. Harmful effects not anticipated from swallowing small amounts.
Inhalation: No adverse effects are anticipated from single exposure to mist. The aerosol LC₅₀ for rates is > 5.0 mg/L for 4 hours (limit test).
Systemic (Other Target Organ) Effects: Repeated exposure did not product systemic toxicity when applied to the skin of rabbits.

SECTION 11.	POTENTIAL HEALTH EFFECTS (Continued)
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<u>Cancer Information:</u>	Spinosad did not cause cancer in laboratory animals.
<u>Teteratology:</u>	Spinosad did not cause birth defects in laboratory animals.
<u>Reproductive Effects:</u>	For Spinosad, in laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.
<u>Mutagenicity:</u>	For Spinosad, in-vitro and animal genetic toxicity studies were negative.

SECTION 12.	ECOLOGICAL INFORMATION
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ENVIRONMENTAL FATE:

MOVEMENT & PARTITIONING:

Bioconcentration potential is low.

Bioconcentration factors for rainbow trout are:

Spinosyn A = 19

Spinosyn D = 33

DEGRADATION AND PERSISTENCE:

Based largely or completely on information for spinosyn A:

The photolysis half-life in soil is 8.68 days, the photolysis half-life in pH 7 buffer is 0.96 days. Under aerobic soil conditions the half-life is 9.4 and 14.5 days.

Based largely or completely on information for spinosyn D:

The photolysis half-life in soil is 9.44 days, the photolysis half-life in pH 7 buffer is 0.84 days. Under aerobic soil conditions the half-life is 14.5 days.

ECOTOXICOLOGY:

Product is highly toxic to marine mollusks on an acute basis (LC₅₀/EC₅₀ between 0.1 and 1.0 mg/L in most sensitive species).

Acute EC₅₀ for shell deposition inhibition in eastern oyster (*Crassostrea virginica*) is 0.295 mg/L.

Product is moderately to slightly toxic to fish on an acute basis (LC₅₀ between 1 and 100 mg/L).

Acute LC₅₀ for mirror or common carp (*Cyprinus carpio*) is 3.49-4.99 mg/L.

Acute LC₅₀ for bluegill (*Lepomis macrochirus*) is 5.94 mg/L.

Acute LC₅₀ for sheepshead minnow (*Cyprinodon variegatus*) is 7.87 mg/L.

Acute LC₅₀ for rainbow trout (*Oncorhynchus mykiss*) is 30 mg/L.

Product is slightly toxic to aquatic invertebrates on an acute basis (LC/EC₅₀ between 10 and 100 mg/L).

Acute LC₅₀ for water flea (*Daphnia magna*) is 92.7 mg/L.

Acute immobilization EC₅₀ for water flea (*Daphnia magna*) is 14 mg/L.

Acute LC₅₀ for grass shrimp (*Palaemonetes pugio*) is > 9.76 mg/L.

Maximum acceptable toxicant concentration (MATC) is 0.692 mg/L in rainbow trout.

Growth inhibition EC₅₀ for diatom (*Navicula sp.*) is 0.107 mg/L.

Growth inhibition EC₅₀ for marine diatom (*Skeletonema costatum*) is 0.227 mg/L.

Growth inhibition EC₅₀ for blue-green alga (*Anabaena flos-aquae*) is 8.09 mg/L.

SECTION 12. ECOLOGICAL INFORMATION (Continued)

Product is practically non-toxic to birds on an acute basis (LD₅₀ > 2000 mg/kg).
Product is practically non-toxic to birds on a dietary basis (LC₅₀ > 5000 ppm).
Acute oral LD₅₀ for bobwhite (*Colinus virginianus*) is > 2000 mg/kg.
Acute oral LD₅₀ for mallard (*Anas platyrhynchos*) is > 2000 mg/kg.
Dietary LC₅₀ for bobwhite (*Colinus virginianus*) is > 5253 ppm.
Dietary LC₅₀ for mallard (*Anas platyrhynchos*) is > 5156 ppm.

SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents in accordance with state and local waste disposal regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal.

SECTION 14. TRANSPORTATION

D.O.T.: Not D.O.T. Regulated.
Other Shipping Description: Insecticides and Fungicides, Liquid.
NMFC Item 102120, LTL Class 60

SECTION 15. REGULATORY INFORMATION

CERCLA: To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

SARA TITLE III, Section 313 Toxic Chemicals: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- An immediate health hazard
- A delayed health hazard

PROPOSITION 65 (CA): None.

STATE RIGHT-TO-KNOW:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>LIST</u>
1,2-Propanediol (Propylene Glycol)	57-55-6	PA1

PA1 = Pennsylvania Hazardous Substance (present at > or = to 1.0%)

SECTION 16. OTHER

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.