MATERIAL SAFETY DATA SHEET

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) 994-9144
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			
Balance, Total Including:		99.5		
Propylene Glycol (1,2-Propanediol)	57-55-6	Proprietary	N.A.	N.P.

* N.A. - Not Available.
* N.P. - Not Pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Off-white to tan liquid suspension with low odor. May cause slight eye irritation. Material is slightly toxic to aquatic organisms. 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, and 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 (includes fire-fighting helmet, coat, pants, boots, and gloves. If protective equipment is not avaialbleor not used, fight fire from a protected location or safe distance. 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^{o}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.
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:	Off-white to light tan liquid.
Odor:	Low odor.
pH:	Not available.
Vapor Pressure:	Similar to water.
Vapor Density (Air=1):	Not available.
Boiling Point:	Not determined.
Freezing Point:	Not available.
Water Solubility:	Dispersible.
Density:	9.09 lbs./gal (Specific Gravity - 1.09 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. LD_{50} (Rabbits) > 5000 mg/kg.
Ingestion:	Very low toxicity if swallowed. The oral LD_{50} 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 LC_{50} for rates is >5.0 mg/L for 4 hours (limit test).

SECTION 11. POTENTIAL HEALTH EFFECTS (Continued)

Systemic (Other Target Organ) Effects: Repeated exposure did not product systemic toxicity when applied to the skin of rabbits.

Cancer Information: Spinosad did not cause cancer in laboratory animals.

Teteratology: Spinosad did not cause birth defects in laboratory animals.

Reproductive Effects: For Spinosad, in laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

Mutagenicity: For Spinosad, in-vitro and animal genetic toxicity studies were negative.

SECTION 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

MOVEMENT & PARTITIONING:
Bioconcentration potential is low.
Bioconcentration factors in fish 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 17.3 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.

ECOTOXICOLOGY:
Product is slightly toxic to aquatic organisms on an acute basis (LC_{50}/EC_{50} between 10 and 100 mg/L in most sensitive species).
Acute immobilization EC_{50} in water flea *(Daphnia magna)* is 16.9 mg/L.
Acute LC_{50} in water flea *(Daphnia magna)* is >90.9 mg/L.
Acute LC_{50} in zebra fish *(Brachydanio rerio)* is >120 mg/L.
Acute LC_{50} in common carp *(Cyprinus carpio)* is >100 mg/L.
The LC_{50} in earthworm *(Eisenia foetida)* is >2000 mg/kg.
Growth inhibition EC_{50} in diatom *(Navicula sp.)* is 0.667 mg/L.
Growth inhibition EC_{50} in green alga (Selenastrum capricornutum) is >100 mg/L.
Acute contact LC_{50} in honeybee *(Apis mellifera)* is 0.12 µg/bee.
Acute oral LD_{50} in honeybee *(Apis mellifera)* is 0.11 µg/bee.

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 f our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 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

PROPOSITION 65 (CA): None.

TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

Chemical Name	CAS No.	LIST
1,2-Propanediol	57-55-6	PA1

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

OSHA HAZARD COMMUNICATION STANDARD: This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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.

DOW - ProductCode:102751
Date: 17-Feb-06