

MATERIAL SAFETY DATA SHEET

CONSERO® INSECTICIDE

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED FOR:

LOVELAND PRODUCTS, INC.
P.O. Box 1286 • Greeley, CO 80632-1286

24-Hour Emergency Phone: 1-800-424-9300
Medical Emergencies: 1-866-944-8565
U.S. Coast Guard National Response Center: 1-800-424-8802

PRODUCT NAME: CONSERO® INSECTICIDE
CHEMICAL NAME: *gamma*-Cyhalothrin: Cyclopropanecarboxylic acid, 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl,cyano(3-phenoxyphenyl)
CHEMICAL NAME: Spinosad: Spinosyn A and Spinosyn D
CHEMICAL FAMILY: Insecticide
EPA REG. NO.: 34704-953
MSDS Number: 000953-09-LPI MSDS Revisions: Sections 1, 7, 13 Date of Issue: 09/04/09 Supersedes: 10/20/08

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN - CAUTION – PRECAUCION - Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle (If you do not understand the label, find someone to explain it to you in detail.) Causes moderate eye irritation. Harmful if swallowed, inhaled or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic skin reaction in some individuals. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

This product is a white to off-white liquid with aromatic odor and an off-white to tan liquid suspension with low odor.

3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
<i>Gamma</i> -Cyhalothrin	14.40	76703-62-3	none established
Other Ingredients, including Aromatic Solvent, contains Naphthalene	85.60	64742-94-5 91-20-3	10 ppm
Polyvinyl Alcohol		9002-89-5	none established
Spinosad, consisting of Spinosyn A	44.20	131929-60-7	not established
Spinosyn D		131929-63-0	not established
Other Ingredients, including Propylene Glycol	55.80	57-55-6	not listed

4. FIRST AID MEASURES

If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

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

If in eyes: Hold eye 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 eye. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: ***Gamma*-Cyhalothrin:** Induced vomiting as first aid for this substance may result in increased risk of chemical pneumonia or pulmonary edema cause by aspiration of the hydrocarbon solvent. Vomiting should be induced only under professional supervision. Skin exposure may also result in a sensation described as tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours, without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.
Spinosad: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565. Have the product label or container with you when calling a poison control center or doctor, or going for treatment.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): >212°F / >100°C (SCC) aqueous suspension
FLAMMABLE LIMITS (LFL & UFL): LFL: Not applicable; UFL: Not applicable
EXTINGUISHING MEDIA: Water fog, foam, CO₂, dry chemical.
HAZARDOUS COMBUSTION PRODUCTS: Toxic irritating gases and noxious fumes under fire conditions.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and full protective gear.
UNUSUAL FIRE AND EXPLOSION HAZARDS: If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Do not allow water runoff to enter nearby streams, ponds or lakes. Keep containers cool with water spray to avoid possible explosion due to internal pressure buildup.

6. ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**

In case of leak or spill, contain by absorbing spilled liquid with clay or other absorbent material; scoop or sweep up material and place in a container for possible land application according to label use or for proper disposal. Dike area in case of large spills. Do not use water for cleanup. Check local, state and federal regulations for proper disposal.

CAUTION: Keep spills and cleaning runoff from flowing onto adjacent land, or into municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

HANDLING: Wash hands after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Keep away from children. Do not use or store near heat or open flame.

STORAGE: Store in original container only. Keep container closed when not in use. Do not store near food or feed. Do not allow product to freeze. Do not contaminate water, food, or feed by storage or disposal.

Personal Protective Equipment (PPE) – Applicators and other handlers must wear: long sleeved shirt and long pants, chemical resistant gloves, such as barrier laminate or Viton® ≥14 mils, shoes plus socks, and protective eyewear. Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. After each day of use, clothing or PPE must not be reused until it has been cleaned.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

RESPIRATORY PROTECTION: Not normally required, if vapors exceed acceptable levels, wear a NIOSH approved pesticide respirator with cartridges for pesticide vapors.

EYE PROTECTION: Chemical goggles or shielded safety glasses.

SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or chemical-resistant gloves.

		OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Aromatic Solvent	Naphthalene	10-ppm/50 mg/m ³	10-ppm/52 mg/m ³ (Skin)
Propylene Glycol	(AIHA WEELS)	10 mg/m ³	

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: *Gamma-Cyhalothrin*: White to off-white liquid with aromatic odor. **SOLUBILITY:** Dispersible

SPECIFIC GRAVITY (Water = 1): 1.034 g/ml **BULK DENSITY:** 8.63 lbs/gal. **pH:** 5.64

VAPOR PRESSURE: 7.73 x 10⁻¹⁰ mm Hg @ 68°F/20°C **BOILING POINT:** Not established

PERCENT VOLATILE (by volume): Not established **EVAPORATION RATE:** Not established

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

APPEARANCE AND ODOR: *Spinosad*: Off-white to tan liquid suspension with low odor. **SOLUBILITY:** Dispersible

SPECIFIC GRAVITY (Water = 1): 1.09 g/ml **BULK DENSITY:** 9.10 lbs/gal. **pH:** not established

VAPOR PRESSURE: Similar to water **BOILING POINT:** 100°C (212°F)

PERCENT VOLATILE (by volume): Not established **EVAPORATION RATE:** Not established

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY: Stable **CONDITIONS TO AVOID:** None known.

INCOMPATIBILITY: Oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, hydrogen chloride, hydrogen fluoride, oxides of nitrogen, hydrogen cyanide, and various chlorinated and fluorinated organic compounds.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Gamma-Cyhalothrin: Acute Oral LD₅₀ (rat): 2250-2646 mg/kg (based on a similar product)

Acute Dermal LD₅₀ (rat): 5000 mg/kg (based on a similar product)

Eye Irritation (rabbit): Causes moderate eye irritation **Skin Irritation (rabbit):** May cause moderate irritation

Inhalation LC₅₀ (rat): >2.72 mg/L (male); >2.54 mg/L (female) **Skin Sensitization (guinea pig):** Not established

Carcinogenic Potential: None listed in IARC, ACGIH, NTP, or OSHA.

Spinosad: Acute Oral LD₅₀ (rat): >5000 mg/kg **Acute Dermal LD₅₀ (rat):** >5000 mg/kg

Eye Irritation (rabbit): May cause slight eye irritation **Skin Irritation (rabbit):** May cause slight irritation

Inhalation LC₅₀ (rat): >5.0 mg/L (4H) **Skin Sensitization (guinea pig):** Not established

Carcinogenic Potential: None listed in IARC, ACGIH, NTP, or OSHA.

12. ECOLOGICAL INFORMATION

This product is extremely toxic to fish and aquatic organisms (LC_{50} or EC_{50} is < 0.1 mg/L in the most sensitive species tested) and toxic to wildlife. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment wash waters. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. **CONTAINER DISPOSAL: Non-refillable container.** Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org. If not recycled, then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. **Triple rinse** or pressure rinse container (or equivalent) promptly after emptying. **For packages up to 5 gallons: 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 container $\frac{1}{4}$ 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. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Do not contaminate water, food, or feed by storage or disposal.

14. TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY USDOT

U.S. Surface Freight Classification: INSECTICIDES OR FUNGICIDES, INSECT OR ANIMAL REPELLENTS; NOI; OTHER THAN POISON (NMFC 102120; CLASS: 60)

Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION**NFPA & HMIS Hazard Ratings:****NFPA**

2	Health	0	Least
2	Flammability	1	Slight
0	Instability	2	Moderate
		3	High
		4	Severe

HMIS

2	Health
2	Flammability
0	Reactivity
G	PPE

SARA Hazard Notification/Reporting

SARA Title III Hazard Category:	Immediate	<u>Y</u>	Fire	<u>N</u>	Sudden Release of Pressure	<u>N</u>
	Delayed	<u>Y</u>	Reactive	<u>N</u>		

Reportable Quantity (RQ) under U.S. CERCLA: Naphthalene (CAS: 91-20-3) 100 pounds (1.4% in product)

SARA, Title III, Section 313:

RCRA Waste Code: Not listed

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

16. OTHER INFORMATION

MSDS STATUS: Sections 1, 7, and 13 revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

This product is a Restricted Use Pesticide (Toxicity to fish and aquatic organisms)

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®Consero is a registered trademark of Loveland Products, Inc.

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