

**IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273 or CHEMTREC 1-800-424-9300**

**1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**MANUFACTURED FOR:**

LOVELAND PRODUCTS CANADA, INC.  
789 Donnybrook Drive • Dorchester, Ontario N0L 1G5

**24-Hour Emergency Phone:** 1-800-561-8273  
**Additional Emergency Phone (Canutec):** 1-613-996-6666 (Collect)

**CHEMICAL IDENTITY:** Diazinon: O-O-Diethyl O- (2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate

**PRODUCT USE:** Insecticide – Group 1B

**PCP REG. NO.:** 29976

**MSDS Number:** 29976-12-LPI

**MSDS Revisions:** Section 16

**Date of Issue:** 09/20/12

**Supersedes:** 12/13/11

**2. HAZARDS IDENTIFICATION SUMMARY**

**KEEP OUT OF REACH OF CHILDREN – DANGER - POISON** – Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye injury. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Do not store near food or feed products. Do not contaminate ornamental fishponds. Do not use in and around homes or other residential areas such as parks, school grounds, or playing fields. For use only by certified users. **Warning: contains soy allergen.**

This product is off white to light brown powder with mild mercaptan (rotten egg) odour and is packaged in water soluble pouches.

**Warning Statements:**

**NOTE TO PHYSICIAN:** This product contains Diazinon, an organophosphate insecticide that inhibits cholinesterase. Atropine is antidotal and should be given in multiple doses as necessary until the patient is atropinized. In severe cases 2-PAM may be given provided therapy begins within 24 hours of exposure. Monitor serum and RBC cholinesterase. Morphine, theophylline, aminophylline, phenothiazines, reserpine, furosemide, or ethacrynic acid are contraindicated in organophosphate poisonings. Administer intravenous fluids cautiously, if needed, to correct dehydration. Symptoms of cholinesterase inhibition can include headache, dizziness, blurred vision, weakness, nausea, cramps, diarrhea, discomfort in the chest, nervousness, sweating, miosis, tearing, salivation, pulmonary edema, uncontrollable twitches, convulsions, coma, and loss of reflexes and sphincter control.

**3. COMPOSITION, INFORMATION ON INGREDIENTS**

<b>Chemical Ingredients:</b>	<b>Percentage by Weight:</b>	<b>CAS No.</b>	<b>TLV (Units)</b>
Diazinon	50.00	333-41-5	0.1 mg/m <sup>3</sup> (skin)
Inert Ingredients (contains Calcium Silicate)	50.00	1344-95-2	0.05 mg/m <sup>3</sup>

**4. FIRST AID MEASURES**

- If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.
- If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control centre or doctor for treatment advice.
- 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 centre 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 centre or doctor for treatment advice.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-561-8273.** Have the product label or container with you when calling a poison control centre or doctor, or going for treatment.

**5. FIRE FIGHTING MEASURES**

- FLASH POINT (°F/Test Method):** Does not flash.
- FLAMMABLE LIMITS (LFL & UFL):** Not established.
- EXTINGUISHING MEDIA:** Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.
- HAZARDOUS COMBUSTION PRODUCTS:** Thermal decomposition products include, but are not limited to, oxides of sulfur and phosphorus containing compounds. Incomplete combustion may lead to formation of carbon monoxide and other asphyxiants.
- 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.

**6. ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**

For small spills, sweep up and place in an approved chemical container for proper disposal. For large spills, sweep up and place in an approved chemical container for proper disposal. Decontaminate the area with a household bleach and water mixture (1:2) and then absorb the liquid with clay or other absorbent. Flush residual spill area with water. Check local and provincial 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 clothing immediately if pesticide gets 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.

**STORAGE:** **For product packaged in Water Soluble Packaging:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Exposure to moisture or excessive handling of water soluble packets may cause breakage. Do not contaminate water, food or feed by storage or disposal.

**Personal Protective Equipment: Applicators and other handlers must wear:** long sleeved shirt and long pants, waterproof gloves and shoes plus socks. 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.

**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 MSHA/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.

	<b>OSHA PEL 8 hr TWA</b>	<b>ACGIH TLV-TWA</b>
Diazinon	not listed	0.01 mg/m <sup>3</sup> (Skin) BEI*
Calcium Silicate	15 mg/m <sup>3</sup> (total dust)	10 mg/m <sup>3</sup>

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOUR:** Off white to light brown powder with mild mercaptan (rotten egg) odour **SOLUBILITY:** Disperses  
**SPECIFIC GRAVITY (Water = 1):** 0.27 g/ml **BULK DENSITY:** 270 kg/m<sup>3</sup>  
**VAPOUR PRESSURE:** Not applicable **pH:** Not established  
**PERCENT VOLATILE (by volume):** Not applicable **BOILING POINT:** Not applicable  
**EVAPORATION RATE:** Not applicable

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:** Excessive heat.

**INCOMPATIBILITY:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition – aliphatic organophosphates, substituted pyrimidines, and hydrogen cyanide.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**Acute Oral LD<sub>50</sub> (rat):** 66 mg/kg (Diazinon technical)

**Eye Irritation (rabbit):** Slight irritant

**Inhalation LC<sub>50</sub> (male rat):** >3500 mg/L (4 HR) (Diazinon)

**Carcinogenic Potential:** Not listed in OSHA, NTP, or IARC. Diazinon is classified by ACGIH as TLV-A4: Not Classifiable as a Human Carcinogen.

Calcium silicate is classified by ACGIH as TLV-A4: Not Classifiable as a Human Carcinogen.

**Acute Dermal LD<sub>50</sub> (rabbit):** 1800 mg/kg (Diazinon technical)

**Skin Irritation (rabbit):** Slight irritant

**Skin Sensitization (Guinea Pig):** Not a sensitizer

**12. ECOLOGICAL INFORMATION**

Diazinon is highly toxic to birds, fish and other wildlife. Birds, especially waterfowl (ducks or geese), feeding or drinking on treated areas may be killed. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on the product label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning equipment or disposal of wash waters.

**13. DISPOSAL CONSIDERATIONS**

Do not reuse containers for any purpose. **For product packaged in Water Soluble Packaging:** Completely empty container into application equipment. Follow provincial instructions for any required additional cleaning of container. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food, or feed by storage or disposal.

**14. TRANSPORT INFORMATION**

**DOT/TDG Shipping Description:** RQ ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, UN3077, III (DIAZINON) MARINE POLLUTANT ERG GUIDE 171 – NOT REGULATED FOR ROAD OR RAIL

**IMDG Shipping Description:** RQ ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, UN3077, III (DIAZINON) MARINE POLLUTANT ERG GUIDE 171

**U.S. Surface Freight Classification:** INSECTICIDE OR FUNGICIDE, INSECT OR ANIMAL REPELLENTS, NOI, OTHER THAN POISON (NMFC 102120, CLASS: 77.5)

**15. REGULATORY INFORMATION**

<b>NFPA &amp; HMIS Hazard Ratings:</b>	NFPA		HMIS
	2 Health	0 Least	2 Health
	0 Flammability	1 Slight	0 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	E PPE
		4 Severe	

**SARA Hazard Notification/Reporting**

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

**Reportable Quantity (RQ) under U.S. CERCLA:** Diazinon (CAS: 333-41-5) 1 lb.

**SARA, Title III, Section 313:** Diazinon (CAS: 333-41-5) 50.0%

**RCRA Waste Code:** Not listed

**CA Proposition 65:** Not listed

**16. OTHER INFORMATION**

**MSDS STATUS:** Section 16 revised

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

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