

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.: 11889

MSDS Number: 11889-12-LPI

MSDS Revisions: Section 1

Date of Issue: 09/12/12

Supersedes: 01/07/11

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. Avoid breathing vapor or spray mist. Avoid contamination of food and feed. Food utensils such as tablespoons and measuring cups should not be used for food purposes after use in measuring pesticides. Keep out of reach of domestic animals. Do not use on humans, household pets or livestock. Do not contaminate ornamental fishponds. For use only by certified users.

This product is amber to straw yellow liquid with mild petroleum odour.

Warning Statements:

NOTE TO PHYSICIAN: This product is an organophosphate (cholinesterase-inhibiting) insecticide. 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

| <u>Chemical Ingredients:</u> | <u>Percentage by Weight:</u> | <u>CAS No.</u> | <u>TLV (Units)</u> |
|------------------------------|------------------------------|----------------|------------------------------|
| Diazinon | 500 g/L | 333-41-5 | 0.1 mg/m ³ (skin) |

4. FIRST AID MEASURES

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| If swallowed: | Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by poison control centre or doctor. Do not give any liquid to the person. 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 15-20 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, preferable by mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention. |
| 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 center or doctor, or going for treatment.

5. FIRE FIGHTING MEASURES

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| FLASH POINT (°F/Test Method): | 151°F / 66.1°C. |
| 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, various aliphatic organophosphates, substituted pyrimidines, and hydrogen cyanide. Incomplete combustion may lead to formation of carbon monoxide and other asphyxiants. |
| SPECIAL FIRE FIGHTING PROCEDURES: | Wear self-contained breathing apparatus with full protective clothing. Fight fire from upwind and keep all non-essential personnel out of area. |
| 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: Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved pesticide respirator or air-supplied respirator. For small spills, absorb with an absorbent material such as pet litter. Sweep up and place in an approved chemical container for proper disposal. Check local and provincial regulations for proper disposal. For large spills, contain liquid by diking the area, keep product out of water supplies. If possible use a pump to pick up liquid, then use absorbent material to absorb any residual liquid. Place both in an approved container. Flush the area with a household bleach and water mixture (1:1) and then absorb the liquid as described in small spills.
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: Store in original container in a cool, dry, well-ventilated area. Store product in an area inaccessible to children and domestic animals. Do not store near fertilizers, herbicides, other insecticides, seeds, food, or feed. 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, chemical-resistant gloves, such as: barrier laminate, butyl rubber, nitrile rubber or Viton®; 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.

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|----------|--------------------------|------------------------------------|
| | OSHA PEL 8 hr TWA | ACGIH TLV-TWA |
| Diazinon | not listed | 0.01 mg/m ³ (Skin) BEI* |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|---|---|
| APPEARANCE AND ODOUR: Amber to straw-coloured with mild petroleum odour. | SOLUBILITY: Emulsifies |
| SPECIFIC GRAVITY (Water = 1): 1.003 g/ml | BULK DENSITY: 1.00 kg/L. |
| VAPOUR PRESSURE: 23.3 mm Hg @ 77°F / 25°C | BOILING POINT: 282 – 291°F / 139 – 144°C |
| PERCENT VOLATILE (by volume): 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 and ignition sources.
INCOMPATIBILITY: Strong bases, acids, and oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition – aliphatic organophosphates, substituted pyrimidines, and hydrogen cyanide.
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

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| Acute Oral LD₅₀ (rat): 1600 mg/kg | Acute Dermal LD₅₀ (rabbit): > 2020 mg/kg |
| Eye Irritation (rabbit): Causes moderate injury | Skin Irritation (rabbit): Slight irritant |
| Inhalation LC₅₀ (male rat): >3500 mg/L (4 HR) (Diazinon) | Skin Sensitization (Guinea Pig): Not a sensitizer |

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

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, 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. Diazinon 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. Do not contaminate water by cleaning equipment or disposal of wash waters.

13. DISPOSAL CONSIDERATIONS

Do not reuse containers for any purpose. Refillable Container: For disposal, the container may be returned to the point of purchase (dealer/distributor). It must be refilled by the dealer/distributor with the same product. Container is recyclable, and is to be disposed of at a container collection site. Contact your local dealer/distributor for the location of the nearest collection site. Before taking container to the collection site: Triple or pressure-rinse the empty container, adding the rinsate to the spray tank. Make the empty container unsuitable for further use. If there is no container collection site in your area, 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

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

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| NFPA & HMIS Hazard Ratings: | | NFPA | | HMIS | |
| 2 | Health | 0 | Least | 2 | Health |
| 2 | Flammability | 1 | Slight | 2 | Flammability |
| 0 | Instability | 2 | Moderate | 0 | Reactivity |
| | | 3 | High | H | PPE |
| | | 4 | Severe | | |

SARA Hazard Notification/Reporting

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|--|-----------|----------|----------|----------|----------------------------|----------|
| SARA Title III Hazard Category: | 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 1 revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Safety and Health

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