

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 IDENTIFICATION

FORMULATED 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)

PRODUCT IDENTITY: AZINPHOS-METHYL; (O,O-dimethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl]phosphorodithioate)

PRODUCT USE: Insecticide – Group 1B

PCP REG. NO.: 23323

MSDS Number: 23323-12-LPI

MSDS Revisions: Section 1

Date of Issue: 09/12/12

Supersedes: 03/18/11

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – DANGER - POISON – Poisonous if swallowed, inhaled, or absorbed through skin. Do not get in eyes or on skin. Do not breathe spray mist. Spray operator should work to windward to stay out of drift or mist. Keep all unprotected persons out of the operating area or vicinity where there may be danger or drift. Do not contaminate feed or foodstuffs. Keep out of reach of children and domestic animals.

This product is a solid tan to light brown powder with sulfur-like odour packaged in water soluble bags.

Warning Statements:

NOTE TO PHYSICIAN: This product is an organophosphate (cholinesterase-inhibiting) insecticide. Atropine is antidotal and should be given in large therapeutic doses. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered in conjunction with atropine. Monitor serum and RBC cholinesterase. Administer intravenous fluids cautiously, if needed, to correct dehydration. Symptoms of cholinesterase inhibition include salivation, gastrointestinal hypermotility, abdominal cramping, nausea, diarrhea, sweating, miosis, tearing, blurred vision, headache, dizziness, ataxia, bradycardia, dyspnea, cyanosis, and muscle twitching or tremors. In extreme cases, tetany, mental confusion, incontinence, weakness, collapse, paralysis, convulsive seizures, and even death, can occur.

3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Azinphos-methyl	50.00	86-50-0	0.2 mg/m ³
Other Ingredients	50.00		

4. FIRST AID MEASURES

If swallowed:	In case of poisoning call a physician immediately or contact a Poison Control Centre immediately. Have patient lie down and keep quiet. If swallowed, vomiting should be induced. Administer water freely and induce vomiting by giving one dose (15 mL) of syrup of Ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of Ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid clear. The patient should be lying down with head below the foot level and facing down or to one side. DO NOT INDUCE VOMITING TO AN UNCONCIOUS PERSON OR TO PERSONS IN A CONVULSIVE STATE. Professional medical assistance should be secured immediately.
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, preferably by 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 or Pest Control Product Registration Number with you when calling a poison control centre or doctor, or going for treatment.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method):	Not Applicable
FLAMMABLE LIMITS (LFL & UFL):	Not Applicable
EXTINGUISHING MEDIA:	Water, foam, dry chemical, or carbon dioxide (CO ₂).
HAZARDOUS COMBUSTION PRODUCTS:	Oxides of carbon, hydrogen sulphide, dimethyl sulphide, sulfur dioxide and other toxic fumes may be emitted in a fire situation.
SPECIAL FIRE FIGHTING PROCEDURES:	Keep out of smoke. Wear self-contained breathing apparatus with full protective clothing. Fight fire from upwind and keep all non-essential personnel out of area of intense smoke.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Accumulation of fine dust may entail the risk of a dust explosion in the presence of air. If water is used to fight fire and/or cool containers, contain runoff, using dikes to prevent contamination of water supplies.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Sweep up or vacuum up material and transfer to containers for proper disposal. Wash spill area with water containing strong detergent, absorb and sweep up as above. Check local, state and federal regulations for proper disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

HANDLING: Wash hands 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 a cool, dry place in such a manner as to prevent cross contamination with other pesticides, fertilizers, food and feed. Do not store below freezing 0°C (32°F). Exposure to moisture or excessive handling of water soluble bag may cause breakage. Store water soluble bags in original container and out of the reach of children, preferably in a locked storage area. Do not contaminate water, food or feed by storage or disposal.

Personal Protective Equipment: Airblast applicators must be in fully enclosed cabs or if not in fully enclosed cabs, applicators must wear: Chemical resistant suit over long sleeved shirt and long-legged pants, chemical-resistant hood, full-face respirator or half-faced respirator with a face shield. Respirators can have either an organic-vapour-removing cartridge with a pre-filter for pesticide (MSHS/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), chemical-resistant footwear plus socks, chemical-resistant gloves, such as barrier laminate or Viton®. **Applicators (other than airblast) and other handlers (other than mixers and loaders) must wear:** coveralls over long-sleeved shirt and long-legged pants, chemical-resistant gloves, such as barrier laminate or Viton®, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure, dust/mist filtering respirator (MSHS/NIOSH approval number TC-23C). **Mixers and loaders must wear the following during mixing, loading, clean-up, and repair activities:** Coveralls over long-sleeved shirt and long-legged pants, chemical-resistant gloves, such as barrier laminate or Viton®, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant apron when mixing or loading. For exposures in enclosed areas, a respirator with either an organic vapour-removing cartridge with a prefilter approved for pesticides (MSHS/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number TC-14G). For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-23C). Discard clothing and other absorbent materials if accidentally drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Wettable powder formulations are permitted only when marketed in water-soluble packages. Water-soluble packages qualify as a closed mixing/loading system when used correctly. Mixers and loaders using water-soluble packets must wear personal protective equipment required in Section 7 for mixers/loaders. Do not break open water-soluble packages.

RESPIRATORY PROTECTION: If dusts or mists become excessive or exceed TLV, wear a NIOSH/MSHA approved pesticide respirator with cartridges for organic vapors. Refer to Section 7 for more detailed information.

EYE PROTECTION: Chemical goggles or shielded safety glasses. Refer to Section 7 for more detailed information.

SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, chemical-resistant footwear and socks. Wear rubber or chemical-resistant gloves. Refer to Section 7 for more detailed information.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Azinphos-methyl	0.2 mg/m ³ (skin)	0.2 mg/m ³ IFV*

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Solid tan to light brown powder with sulfur-like odour packaged in water soluble bags	SOLUBILITY: Soluble
SPECIFIC GRAVITY (Water = 1): 0.336 – 0.400 g/ml	BULK DENSITY: 336 – 400 kg/m ³
VAPOR PRESSURE: Not established	BOILING POINT: Decomposes before reaching boiling point
PERCENT VOLATILE (by volume): Not established	EVAPORATION RATE (Butyl Acetate = 1): 0.1

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: Sustained temperatures above 37.8°C / 100°F.
INCOMPATIBILITY: Strong oxidizing agents and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, hydrogen sulphide, dimethyl sulphide, sulfur dioxide and other toxic fumes may be emitted in a fire situation

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (female rat): 24.7 mg/kg	Acute Dermal LD₅₀ (rat): >2000 mg/kg
Eye Irritation (rabbit): Mild irritant	Skin Irritation (rabbit): Moderate irritant
Inhalation LC₅₀ (female rat): 0.146 mg/m ³ (4H)	Skin Sensitization (guinea pig): Not a sensitizer
Carcinogenic Potential: ACGIH lists Azinphos-methyl as: TLV-A4: Not Classifiable as a Human Carcinogen. Not listed in OSHA, IARC or NTP.	

12. ECOLOGICAL INFORMATION

This product is extremely toxic to fish and wildlife. Do not apply directly to water, or to areas where water is present or to intertidal areas above the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighbouring areas. This product is highly toxic to bees exposed to direct treatment, drift, or residues on blooming crops or weeds. Do not apply the product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. When treating fruit during the bloom period, bee keepers should be warned well in advance to remove hives to a safe distance from orchards to be treated. Product information may be obtained from you local government extension specialist.

Drift resulting from applications of azinphos-methyl is a hard to aquatic ecosystems. Aquatic ecosystems consist of any permanent body of water, such as, but not limited to lakes, ponds, streams, rivers, creeks, sloughs, canals, coulees, prairie potholes, reservoirs, marches or wetlands. For details on required buffer zones, refer to Spray Drift Management for Ground Applications in the product label.

13. DISPOSAL CONSIDERATIONS

Make outer bag unsuitable for further use. Do not reuse outer bag for any purpose. Dispose of outer bag 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 ORGANOPHOSPHORUS PESTICIDES, SOLID, TOXIC, AZINPHOS-METHYL), 6.1, UN2783, II MARINE POLLUTANT ERG GUIDE 152

U.S. Surface Freight Classification: INSECTICIDES OR FUNGICIDES, INSECT OR ANIMAL REPELLENTS, NOI, OR VERMIN EXTERMINATORS, ANIMAL OR POULTRY, NOI; POISON (NMFC 102100; CLASS: 77.5)

IMDG Shipping Description: ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC, (AZINPHOS-METHYL), 6.1, UN2783, II MARINE POLLUTANT ERG GUIDE 152

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

15. REGULATORY INFORMATION

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

SARA Hazard Notification/Reporting

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

Reportable Quantity (RQ) under U.S. CERCLA: Azinphos-methyl (CAS: 86-50-0): 1 pound

SARA, Title III, Section 313: Not listed

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 Health and Safety

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IFV*: Measured as inhalable fraction and vapor.

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