

InterProvincial Cooperative Limited

Material Safety Data Sheet

Product: Malathion 500

IDENTIFICATION & DESCRIPTION

PCP Act Reg. #: 5821
WHMIS STATUS: Controlled
WHMIS CLASS (ES): B3, D2A
PHYSICAL STATE: Liquid
APPEARANCE & ODOUR: Transparent yellow with mercaptan-like odour
USES: Organophosphate Insecticide
SUPPLIER: INTERPROVINCIAL COOPERATIVE LTD.
ADDRESS: 945 Marion St.
Winnipeg, Manitoba
R2J 0K7
EMERGENCY PHONE NO: (613) 996-6666 (Canutec)

PHYSICAL DATA

SPECIFIC GRAVITY: (@ 20.0 C): 1.0410
VAPOUR DENSITY: Not Established
SOLUBILITY IN WATER: Emulsifies
SOLUBILITY IN LIQUIDS: Not Established
FREEZING POINT: Not Established
% VOLATILE BY VOLUME: Not Established
BOILING POINT: Not Established
ODOUR THRESHOLD (ppm): Not Established
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not Established
VAPOUR PRESSURE: Not Established
EVAPORATION RATE: Not Established
PH: Not Established

CONTROLLED PRODUCTS LIST

| | | | |
|-----------------|----------------------|--------------|------------------|
| Malathion 500 | | | |
| LD50-ORAL: | 4302 mg/kg Rat | LD50-DERMAL: | > 2000 mg/kg Rat |
| T.L.V. (ACGIH): | 10 mg/m ³ | LC50: | Not Established |
| Non-Hazardous | | | |
| C.A.S. #: | N/A | % (W/W): | 1 - 10 |
| LD50-ORAL: | Not Established | LD50-DERMAL: | Not Established |
| T.L.V. (ACGIH): | Not Established | LC50: | Not Established |
| Malathion Tech | | | |
| C.A.S. #: | 121-75-5 | % (W/W): | 30 - 60 |
| LD50-ORAL: | 5500 mg/kg Rat | LD50-DERMAL: | Not Established |
| T.L.V. (ACGIH): | 10 mg/m ³ | LC50: | Not Established |
| Solvesso 150 | | | |
| C.A.S. #: | 64742-94-5 | % (W/W): | 30 - 60 |
| LD50-ORAL: | 5000 mg/kg Rat | LD50-DERMAL: | Not Established |
| T.L.V. (ACGIH): | Not Established | LC50: | Not Established |

FIRE & EXPLOSION DATA

FLASH POINT & METHOD: (C): 64 (Tag Closed Cup)
FLAMMABLE LIMITS (% IN AIR): Lower: Not Established Upper: Not Established
AUTOIGNITION TEMPERATURE: Not Established
UNUSUAL FIRE & EXPLOSION HAZARDS: Vapours and fumes from fire may be hazardous; evacuate people downwind. If water is used to fight fire, dike area and contain runoff and prevent contamination of water supply.

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EXTINGUISHING MEDIA: Dry Chemical, foam, Carbon Dioxide, water spray or fog

SPECIAL OXIDIZING MATERIAL HAZARDS: Not Established

HAZARDOUS COMBUSTION PRODUCTS: Some hazardous phosphorous and/or sulfur products may be formed. Incomplete combustion may lead to formation of carbon monoxide.

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool fire exposed containers or structures. Use water spray to disperse vapours; re-ignition is possible. Use self-contained breathing apparatus and protective clothing.

HAZARDOUS REACTIVITY

DECOMPOSITION TEMP: Not Established

STABILITY: Yes.

MATERIALS TO AVOID: Strong oxidizers and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Some hazardous phosphorous and/or sulfur products may be formed. Incomplete combustion may lead to formation of carbon monoxide.

HAZARDOUS POLYMERIZATION OR CONDENSATION: Will not occur.

CONDITIONS TO AVOID: Excessive heat

TOXICOLOGICAL DATA

CHRONIC HEALTH HAZARDS: Prolonged or repeat exposure may lead to kidney or central nervous system symptoms.

MUTAGENICITY DATA: No information is available and no adverse mutagenic effects are anticipated.

CARCINOGENICITY DATA: No information is available and no adverse mutagenic effects are anticipated.

TERATOGENICITY DATA: No information is available and no adverse teratogenic effects are anticipated.

REPRODUCTIVE EFFECTS: No information is available and no adverse reproductive effects are anticipated.

EFFECTS OF OVEREXPOSURE (INHALATION): Cholinesterase inhibition.

EFFECTS OF OVEREXPOSURE (EYES): Causes eye irritation.

EFFECTS OF OVEREXPOSURE (SKIN): May cause skin irritation.

EFFECTS OF OVEREXPOSURE (INGESTION): Cholinesterase inhibition.

OTHER HEALTH EFFECTS: May cause headache, blurred vision, nervousness, nausea, vomiting, cramps, salivation, dizziness, weakness, respiratory difficulty, muscle twitches, convulsions and loss of reflexes.

PREVENTATIVE MEASURES

STORAGE AND USE: Store in a cool, well-ventilated area. Keep away from heat, sparks and filling of containers. Keep away from children; prevent contact with eyes, and skin, and clothing. Do not store near fertilizers, foodstuffs, seed, insecticides or fungicides. Do not contaminate irrigation ditches or domestic water supplies. If this happens notify police and local authorities.

STEPS TO BE TAKEN IN THE EVENT OF A SPILL, LEAK, OR RELEASE: Eliminate all sources of ignition. Stop or reduce discharge if safe to do so. Prevent from entering watercourses or sewers. Ventilate enclosed spaces. **Large spills:** Warn public of potential downwind explosion hazard due to flashback of flammable vapours. Contain by dyking for release to land, or damming for release to water. Recover product and collect contaminated soil or water for treatment and/or disposal. **Small spills:** Contain by applying absorbent. Collect waste absorbent and contaminated soil for disposal. For significant releases, contact appropriate regulatory authorities.

SPECIAL ENGINEERING CONTROLS: Mechanical ventilation preferred.

WASTE DISPOSAL METHOD: Dispose of waste materials in an approved incinerator or waste treatment/disposal facility in accordance with applicable regulations. Do not dispose of wastes in local sewer or with normal waste.

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EYE PROTECTION: CSA approved safety glasses with side shields or goggles.
RESPIRATORY PROTECTION: In usual cases the MSHA Comfo II Pesticide respirator is recommended.
SKIN PROTECTION (HAND AND ARM): PVC or rubber gloves.
SKIN PROTECTION (FEET): Rubber boots.
SKIN PROTECTION (BODY): Overalls and impermeable apron made from viton.
OTHER PERSONAL PROTECTION: Recommendations listed above indicate the type of equipment, which will provide protection against overexposure to this product. Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

FIRST AID DATA

FIRST AID (INHALATION): Remove to fresh air. If not breathing, give artificial respiration. Obtain medical attention IMMEDIATELY.
FIRST AID (INGESTION): Unless unconscious or convulsing dilutes material with 1-2 glasses of water or milk. DO NOT induce vomiting. OBTAIN MEDICAL ATTENTION IMMEDIATELY. If patient fails to respond to Atropine, then stomach lavage.
FIRST AID (SKIN): Flush skin with running water, and then continue flushing with running water for 5 - 10 minutes. Start flushing while removing contaminated clothing. If irritation persists, repeat flushing. Obtain medical attention IMMEDIATELY.
FIRST AID (EMERGENCY MEDICAL CARE): This product is an organic phosphate insecticide. If symptoms of cholinesterase inhibition appear, atropine sulphate by injection is antidotal. 2-PAM is also antidotal, but only in conjunction with atropine.
FIRST AID (EYES): In case of contact, immediately flush eyes with plenty of water for 5 - 10 minutes and get medical attention.

OTHER INFORMATION

SPECIAL SHIPPING INFORMATION: Observe applicable shipping and handling regulations.
ADDITIONAL INFORMATION: THE ENCLOSED INFORMATION IS SUPPLIED AS A CUSTOMER SERVICE AND IS PROVIDED IN GOOD FAITH. ALTHOUGH IT HAS BEEN BASED ON DATA DRAWN FROM SOURCES DEEMED TO BE RELIABLE, IPCO CANNOT GUARANTEE ITS ACCURACY AND ASSUMES NO RESPONSIBILITY FOR CONDITIONS RESULTING FROM ITS USE.

TRANSPORT OF DANGEROUS GOODS DATA

| | | | |
|------------------------|----------------|-----------------|----------------|
| SHIPPING NAME: | Non-Regulated | | |
| CLASSIFICATION: | Not Applicable | P. I. N. | Not Applicable |
| PACKING GROUP: | Not Applicable | | |

PREPARATION DATA

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|--------------------------|----------------|---------------------|----------------|
| PREPARATION DATE: | 9/01/2009 | PREPARED BY: | Wayne Eastveld |
| DEPARTMENT: | Laboratory | | |
| PHONE NUMBER: | (204) 233-3461 | | |