

InterProvincial Cooperative Limited

Material Safety Data Sheet

Product: Cygon 480 EC

IDENTIFICATION & DESCRIPTION

PCP Act Reg. #: 9807
WHMIS STATUS: Controlled
WHMIS CLASS (ES): B3, D1B, D2B
PHYSICAL STATE: Liquid
APPEARANCE & ODOUR: Colourless to slightly yellow, slightly 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): 1.1000
VAPOUR DENSITY: Not Established
SOLUBILITY IN WATER: EMULSIFIES
SOLUBILITY IN LIQUIDS: Not Established
FREEZING POINT: Not Established
% VOLATILE BY VOLUME: Not Established
BOILING POINT: (C): 153
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

| | | | |
|----------------------|-----------------|--------------|------------------|
| Cygon 480 EC | | | |
| LD50-ORAL: | 450 mg/kg Rat | LD50-DERMAL: | > 2000 mg/kg Rat |
| T.L.V. (ACGIH): | Not Established | LC50: | Not Established |
| Solvesso 150 | | | |
| C.A.S. #: | 64742-94-5 | % (W/W): | 7 - 13 |
| LD50-ORAL: | 5000 mg/kg Rat | LD50-DERMAL: | Not Established |
| T.L.V. (ACGIH): | 50 ppm | LC50: | Not Established |
| Dimethoate | | | |
| C.A.S. #: | 60-51-5 | % (W/W): | 30 - 60 |
| LD50-ORAL: | 152 mg/kg Rat | LD50-DERMAL: | Not Established |
| T.L.V. (ACGIH): | Not Established | LC50: | Not Established |
| Cyclohexanone | | | |
| C.A.S. #: | 108-94-1 | % (W/W): | 15 - 40 |
| LD50-ORAL: | 29000 mg/kg Rat | LD50-DERMAL: | Not Established |
| T.L.V. (ACGIH): | Not Established | LC50: | Not Established |

FIRE & EXPLOSION DATA

FLASH POINT & METHOD: (C): 42 (Tag Closed Cup)
FLAMMABLE LIMITS (% IN AIR): Lower: Not Established Upper: Not Established
AUTOIGNITION TEMPERATURE: Not Established
UNUSUAL FIRE & EXPLOSION HAZARDS: Combustible Liquid.
EXTINGUISHING MEDIA: Dry Chemical or foam.

InterProvincial Cooperative Limited

Material Safety Data Sheet

SPECIAL OXIDIZING MATERIAL HAZARDS: Not Established

HAZARDOUS COMBUSTION PRODUCTS: The essential breakdown products are dimethyl sulfide, sulfur dioxide, carbon monoxide, carbon dioxide, nitrogen oxides and phosphorus pentoxide.

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 alkalis and strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: The essential breakdown products are dimethyl sulfide, sulfur dioxide, carbon monoxide, carbon dioxide, nitrogen oxides and phosphorus pentoxide.

HAZARDOUS POLYMERIZATION OR CONDENSATION: Will not occur.

CONDITIONS TO AVOID: Not Established

TOXICOLOGICAL DATA

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

MUTAGENICITY DATA: Dimethoate is mutagenic in bacterial tests, but not in mammalian cells or "in-vivo" tests.

CARCINOGENICITY DATA: Dimethoate is not carcinogenic in rats or mice.

TERATOGENICITY DATA: Dimethoate is not teratogenic.

REPRODUCTIVE EFFECTS: No embryo toxic effects of Dimethoate are found in rats and rabbits at maternal non-toxic doses.

EFFECTS OF OVEREXPOSURE (INHALATION): Cholinesterase inhibition.

EFFECTS OF OVEREXPOSURE (EYES): Causes eye irritation.

EFFECTS OF OVEREXPOSURE (SKIN): May cause skin irritation, due to solvent.

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 while filling of containers. Keep away from children, prevent contact with eyes, and skin 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. Product is highly toxic to bees.

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. For 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.

InterProvincial Cooperative Limited

Material Safety Data Sheet

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.

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, dilute 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 if desired.

FIRST AID (EMERGENCY MEDICAL CARE): Dimethoate is a cholinesterase inhibitor affecting the central and peripheral nervous systems producing cardiac and respiratory depression. The product contains petroleum distillates, which may pose an aspiration pneumonia hazard.

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

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|------------------------|---|----------------|---------|
| SHIPPING NAME: | ORGANOPHOSPHORUS PESTICIDES, LIQUID, TOXIC, FLAMMABLE, N.O.S.* (DIMETHOATE, CYCLOHEXANONE) | | |
| CLASSIFICATION: | 6.1(3) | P.I.N.: | UN 3017 |
| PACKING GROUP: | III | | |

PREPARATION DATA

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