

**Agrium Advanced Technologies**

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**MATERIAL SAFETY DATA SHEET****PRODUCT:** Dimethoate 480 EC Systemic Insecticide**Transportation Emergencies:** 1-800-792-8311**Medical Emergencies:** 1-877-615-0015**SECTION 1 - PRODUCT INFORMATION****P.C.P. Act Registration No.:** 12864**Code:** 5113570**Chemical Name:** O,O-Dimethyl S-(methylcarbamoylmethyl) phosphorodithioate**Synonyms:** Dimethoate, Cygon**Chemical Family:** Organophosphate**Product Use:** Insecticide**TDG Classification:** Regulated by Road/Rail/Marine Transport: Limited Quantity**SECTION 2 - HAZARDOUS INGREDIENTS**

HAZARDOUS INGREDIENTS	WEIGHT %	CAS REG #	LD50 (mg/Kg)	T.W.A. - T.L.V.
Dimethoate	44.4	60-51-5	Oral, rat 387 Dermal, rat >2000	LC 50, 1.6 mg/l/4hrs
Cyclohexanone	30 - 50	108-94-1	Oral, rat 1620 Dermal, rabbit 950	LC 50, 8000 ppm/4hrs
Calculated LD50 for mixture			717	

**SECTION 3 - PHYSICAL DATA****Physical State:** Liquid**Specific Gravity:** 1.066**Boiling Point:** No Data**Vapour Pressure:** No Data**% Volatiles:** Approx. 55 %**Solubility in Water:** Emulsifies**Appearance/Odour:** Clear yellow liquid with mercaptan odour.**pH:** No Data**Freezing/Melting Point:** No Data**Vapour Density:** Greater than air**Evaporation Rate:** No Data**SECTION 4 - FIRE AND EXPLOSION****Flash Point:** 42 °C T.C.C.**Lower Explosion Limit %:** 1 %**Fire Extinguishing Media:** Foam, Carbon Dioxide, Dry Chemical, Water Fog**Fire Fighting Procedures:** Wear self-contained Breathing Apparatus and impervious clothing. Minimize the amount of water used and contain the run-off.**Other Fire or Explosion Hazards:** Vapours may travel to ignition source and flash back.**Autoignition Temperature:** No Data**Upper Explosion Limit %:** 9 %**SECTION 5 - REACTIVITY DATA****Stability:** Stable**Conditions to Avoid:** Elevated temperatures. Do not store at temperatures above 40 °C.**Incompatibility (Materials to Avoid):** Strong bases and oxidizers.**Hazardous Decomposition Products:** Thermal decomposition may produce oxides of nitrogen, phosphorus and sulphur.**Hazardous Polymerization:** Will Not Occur

# Dimethoate 480EC Systemic Insecticide

## SECTION 6 - HEALTH HAZARD DATA

**Acute Effects of Overexposure:** May cause temporary irritation to eyes, nose, throat, and respiratory tract. May cause Central Nervous System (CNS) Depression. Headache, dizziness, nausea, abdominal cramps, diarrhea are early symptoms. Unconsciousness, convulsions and coma are signs of severe poisoning.

**Effects of Chronic Exposure:** Prolonged exposure may cause dermatitis.

**Other Health Effects:** Dimethoate is a cholinesterase inhibitor. The antidote is atropine, give multiple doses until patient is atropinized, must remain atropinized for 24 to 48 hours to prevent delayed resorption.

## SECTION 7 - FIRST AID PROCEDURES

**Inhalation:** Move victim to fresh air and restore breathing if required. OBTAIN MEDICAL ADVICE.

**Skin Contact:** Flush skin with running water and thoroughly wash with soap and water. If irritation persists seek medical attention.

**Ingestion:** Give 1 to 2 glasses water (200 to 500 ml) to dilute material. Do Not Induce Vomiting. OBTAIN MEDICAL ADVICE. Never give anything by mouth to an unconscious person.

**Eye Contact:** Flush eyes with running water for 20 minutes. Hold eyelids open during flushing. If irritation persists seek Medical Attention.

## SECTION 8 - PREVENTIVE MEASURES

**Respiratory Protection:** Prolong usage requires a NIOSH/MSHA approved respirator.

**Eye Protection:** Chemical goggles.

**Skin Protection:** Chemical resistant gloves.

**Other Personal Protective Equipment:** Coveralls.

**Engineering Controls:** Local exhaust or ventilation.

**Handling Procedures and Equipment:** Avoid breathing vapours, contact with eyes, skin and clothing. Wash thoroughly after use.

**Storage Requirements:** Store in cool, dry, ventilated area. Keep out of reach of children and pets.

**Storage Temperature:** Min: 5 °C Max: 40 °C

## SECTION 9 - ENVIRONMENTAL PROTECTION DATA

**Spill and Leak Procedures:** Eliminate all ignition sources. Stop leak, contain spill by diking and absorb with suitable absorbent and transfer into waste container for disposal. Clean area with detergent and water, absorb wash and place in waste container. Remove any contaminated soil for proper disposal.

**Waste Disposal:** Dispose of empty container in household garbage. Dispose of waste product in accordance with Local, Provincial or Federal government regulations.

**Environmental Effects:** Do not contaminate local water supplies or environments.

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**Prepared by:** Technical Department

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