



**Agrium Advanced Technologies**  
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## MATERIAL SAFETY DATA SHEET

**PRODUCT:** Dursban® Turf Insecticide

### SECTION 1 - PRODUCT INFORMATION

**P.C.P. Act Registration No.:** 24945

**Code:** 5116020

**Chemical Name:** Chlorpyrifos: O,O-diethyl-O-(3,5,6-trichloro-2-pyridyl)phosphorothioate.

**Synonyms:** Dursban

**Chemical Family:** Organophosphate

**Product Use:** Insecticide

**TDG Classification:** Regulated by Road/Rail Transport: Flammable Liquid Toxic – NOS (Aromatic Hydrocarbons) Class 3(6.1) UN 1992 – PGIII. Regulated by Marine Transport: Flammable Liquid Toxic – NOS (Aromatic Hydrocarbons) Class 3(6.1)(9) UN 1992 – PGIII (Severe Marine Pollutant)

### SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	WEIGHT %	CAS REG #	LD50 (mg/Kg)	T.W.A. - T.L.V.
Chlorpyrifos	44.8	2921-88-2	Oral,rat 135 Dermal,rat 202	-
Petroleum Distillates	30 - 40	64742-95-6	Oral,rat >10 mL/Kg	300 ppm
Calculated LD50 for mixture			301	

### SECTION 3 - PHYSICAL DATA

**Physical State:** Liquid

**Specific Gravity:** 1.07

**Boiling Point:** No Data

**Vapour Pressure:** No Data

**% Volatiles:** Approx. 50 %

**Solubility in Water:** Emulsifies

**Appearance/Odour:** Clear amber liquid with solvent 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:** 57 °C T.C.C.

**Lower Explosion Limit %:** 1.0 %

**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 %:** 6.0 %

### SECTION 5 - REACTIVITY DATA

**Stability:** Stable

**Conditions to Avoid:** Chlorpyrifos undergoes exothermic reaction at approx. 130 °C.

**Incompatibility (Materials to Avoid):** Strong oxidizers and alkalis.

**Hazardous Decomposition Products:** Hydrogen Chloride, Ethyl Sulphate, Diethyl Sulphate and Nitrogen Oxides.

**Hazardous Polymerization:** Will Not Occur

## SECTION 6 - HEALTH HAZARD DATA

**Acute Effects of Overexposure:** May cause temporary irritation to eyes, nose, throat, and respiratory tract. Headache, dizziness, weakness, nausea, abdominal cramps and diarrhea are early signs of poisoning. May cause central nervous system depression (CNS).

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

**Other Health Effects:** Chlorpyrifos is a cholinesterase inhibitor. The antidote is atropine sulphate. CNS depression is characterized by headache, dizziness, drowsiness, nausea, vomiting and incoordination.

## 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:** NIOSH/MSHA approved respirator, if required.

**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: 0 °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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