

**MATERIAL SAFETY DATA SHEET**

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**PRODUCT INFORMATION**

<b>Product Identifier</b>	<b>PLANTFUME DDVP SMOKE FUMIGATOR</b> (PCP NO. 8775)
<b>Manufacturer's Name</b>	PLANT PRODUCTS CO. LTD.
<b>Address</b>	314 ORENDA ROAD BRAMPTON, ONTARIO L6T 1G1
<b>Emergency Phone Number</b>	1-613-996-6666
<b>Product Use</b>	INSECTICIDE FOR GREENHOUSE

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**HAZARDOUS INGREDIENTS**

<b>Hazardous Ingredients</b>	<b>C.A.S. / N.A. / UN No.</b>	<b>%</b>	<b>LD<sub>50</sub></b>
DICHLORVOS	62-73-7	15	56 mg/kg (ORAL)
POTASSIUM CHLORATE	3811-04-9	14	70 mg/kg (ORAL)

<b>WHMIS CLASSIFICATION</b>	EXEMPT - PESTICIDE
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**PHYSICAL DATA**

<b>Physical State:</b> SOLID	<b>Odour and Appearance:</b> TAN GRANULES, ODOURLESS
<b>Odour Threshold:</b> NA	<b>Specific Gravity:</b> NA
<b>Vapour Pressure:</b> NA	<b>Vapour Density:</b> NA
<b>Evaporation Rate:</b> NA	<b>Boiling Point:</b> NA
<b>Freezing Point:</b> NA	<b>Density:</b> NA
<b>pH:</b> NA	

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**FIRE AND EXPLOSION HAZARD**

**Flammability:** FLAMMABLE

**Means of Extinction:**

WEAR SELF-CONTAINED BREATHING APPARATUS AND IMPERVIOUS CLOTHING. DIFFICULT TO EXTINGUISH ONCE IGNITED. IN CASE OF FIRE KEEP OTHER CONTAINERS COOL BY HOSE WITH WATER. CONTAINERS WILL BURST UNDER EXTREME HEAT. EXTINGUISHING AGENTS CO<sub>2</sub>, DRY CHEMICAL, WATER, FOAM. CONTACT WITH TOXIC FUMES AND VAPOURS SHOULD BE AVOIDED BY STAYING UPWIND.

<b>Flashpoint:</b> NA	<b>UEL:</b> NA	<b>LEL:</b> NA
<b>Auto-ignition Temperature:</b> 175° C	<b>TDG Flammability Class:</b> FLAMMABLE SOLID	
<b>Hazardous Combustion Products:</b> CO, CO <sub>2</sub> , HCl, P <sub>2</sub> O <sub>5</sub> DERIVATIVES		

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**REACTIVITY DATA**

**Chemical Stability:** STABLE IN CLOSED CONTAINER

**Incompatibility:** ACIDS, ALKALINES, STRONG OXIDIZERS

**Conditions of Reactivity:** HIGH TEMPERATURE AND HUMIDITY

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>, HCl, P<sub>2</sub>O<sub>5</sub>

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**TOXICOLOGICAL PROPERTIES**

**Route of Entry:** **Effects of Acute or Chronic Exposure:**

**SKIN CONTACT - TOXIC BY SKIN CONTACT.** LD<sub>50</sub> (RABBIT) 205 mg/kg.

**SKIN ABSORPTION - ACUTE DERMAL TOXICITY OF DICHLORVOS IS 107 mg/kg (RAT).** MAY BE FATAL IF ABSORBED THROUGH THE SKIN.

**EYE CONTACT - BURNING SENSATION IN EYES.** MAY BE FATAL IF ABSORBED THROUGH THE EYE.

**INHALATION - ACUTE INHALATION (LC<sub>50</sub>) OF DICHLORVOS IS (1 HOUR, WHOLE BODY) 140 mg/m<sup>3</sup> (RAT).** DICHLORVOS IS A CHOLINESTERASE INHIBITOR. MILD TO MODERATELY SEVERE POISONING: HEADACHE, NAUSEA, DIARRHEA, ABDOMINAL CRAMPS, BLURRED VISION, TIGHTNESS IN CHEST, FEELING OF WEAKNESS, SWEATING, VOMITING, INDISPOSITION, NERVOUSNESS, DIFFICULTY SWALLOWING. SEVERE POISONING: PROFUSE SWEATING, EYE PAINS, PINPOINT PUPILS (MIOSIS), MUSCULAR TWITCHING, SLURRED SPEECH, HYPERSALIVATION, COLIC, RESPIRATORY DISTRESS, HEART COMPLAINTS, CONVULSIONS, UNCONSCIOUSNESS.

**INGESTION - ACUTE ORAL TOXICITY OF DICHLORVOS (RATS) IS 56 mg/kg.** EFFECT OF INGESTION SIMILAR TO INHALATION SYMPTOMS. DEATH FROM POTASSIUM CHLORATE POISONING MAY OCCUR UP TO ONE WEEK AFTER INITIAL POISONING.

**Exposure Limits:**

DICHLORVOS - OSHA PEL 1 mg/m<sup>3</sup> (8 HRS. TWA)

**Synergistic Products:**

NOT KNOWN

**Sensitization / Irritancy:**

POSSIBLE SENSITIZER (GUINEA PIG)

**Carcinogenicity:**

IARC LISTS DICHLORVOS AS BEING POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B).

**Teratogenicity / Mutagenicity / Reproductive Effects:**

NONE KNOWN

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**PREVENTIVE MEASURES****Personal Protective Equipment:**

**EYES - WEAR GOGGLES WHEN LIGHTING AND WHEN VENTILATING NEXT DAY.**

**SKIN - WEAR IMPERMEABLE GLOVES AND LONG-SLEEVED PROTECTIVE CLOTHING WHEN LIGHTING AND VENTILATING NEXT DAY.**

**RESPIRATORY - WEAR SUPPLIED AIR IF EXPOSED TO SMOKE OR FULL-FACE MASK AND APPROPRIATE PESTICIDE CANISTER WHEN VENTILATING NEXT DAY.**

**Engineering Controls:**

NO ONE MUST BE PRESENT WHEN SMOKE IS BEING GENERATED. VENTILATE THOROUGHLY AFTER FUMIGATION.

**Leak or Spill Procedure:**

ABSORB IN SOIL. SWEEP INTO CONTAINER. DISPOSE OF CONTAINER IN ACCORDANCE WITH FEDERAL AND PROVINCIAL REGULATIONS. DECONTAMINATE SURFACES WITH WATER CONTAINING SOAP, SODA OR DETERGENT.

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**PREVENTIVE MEASURES** (continued)

**Disposal:**

DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.

**Handling Procedures and Equipment:**

OPEN CANS ONLY AS REQUIRED AND USE IMMEDIATELY. AVOID INHALATION OF DUST, SMOKE OR FUMES. DO NOT CONTAMINATE FEED OR FOODSTUFFS. AVOID SKIN CONTACT. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

**Storage Requirements:**

KEEP OUT OF REACH OF CHILDREN. STORE PRODUCT IN A COOL, DRY AND LOCKED AREA.

**Shipping Information:**

SHIPPING NAME – LIMITED QUANTITY, MARINE POLLUTANT, DICHLORVOS 15%

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**FIRST AID MEASURES:**

**SKIN** - REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH LARGE AMOUNTS OF CLEAR WATER FOR AT LEAST 15 MINUTES.

**EYES** - IMMEDIATELY FLUSH THE EYES WITH COPIOUS AMOUNTS OF CLEAR, COOL RUNNING WATER FOR A MINIMUM OF 15 MINUTES. HOLD THE EYELIDS APART DURING THE FLUSHING. CONTACT A PHYSICIAN IMMEDIATELY.

**INHALATION** - IF NAUSEA OR HEADACHE DEVELOP, SEEK MEDICAL ATTENTION IMMEDIATELY. REMOVE VICTIM TO FRESH AIR. IF BREATHING HAS CEASED, CLEAR VICTIM'S AIRWAY AND START MOUTH-TO-MOUTH ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT GIVE OXYGEN. CONTACT A PHYSICIAN IMMEDIATELY.

**INGESTION** - DRINK COPIOUS AMOUNTS OF WARM WATER, INDUCE VOMITING AND REPEAT UNTIL VOMIT IS CLEAR. SEEK MEDICAL ATTENTION IMMEDIATELY.

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**ADDITIONAL INFORMATION:**

OPEN CANS AWAY FROM BODY. IF CANS ARE PUFFED UP, DO NOT OPEN. CONTENTS WILL BE UNDER PRESSURE. FUMIGATION MUST BE DONE OVER NIGHT. LOCK GREENHOUSE AND POST WARNING SIGNS DURING FUMIGATION. TOXIC TO FISH, BIRDS AND OTHER WILDLIFE. KEEP OUT OF ANY BODY OF WATER. DO NOT APPLY WHEN WEATHER CONDITIONS FAVOUR DRIFT FROM TREATED AREAS. DO NOT APPLY WHERE RUN-OFF IS LIKELY TO OCCUR. DO NOT CONTAMIANTE WATER BY CLEANING OF EQUIPMENT OR DISPOSAL OF WASTES.

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**PREPARATION INFORMATION**

**Department:**

**Phone Number:**

**Date:**

TECHNICAL

(905) 793-7000

MAY 2009

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NA - Not Applicable  
ND - Not Determined