# PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>PLANTFUME NICOTINE SMOKE FUMIGATOR</th>
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<tbody>
<tr>
<td>Manufacturer’s Name</td>
<td>PLANT PRODUCTS CO. LTD.</td>
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<tr>
<td>Address</td>
<td>314 ORENDA ROAD</td>
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<td></td>
<td>BRAMPTON, ONTARIO</td>
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<td></td>
<td>L6T 1G1</td>
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<tr>
<td>Emergency Phone Number</td>
<td>1-613-996-6666</td>
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<tr>
<td>Product Use</td>
<td>GREENHOUSE INSECTICIDE</td>
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## HAZARDOUS INGREDIENTS

<table>
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<tr>
<th>Hazardous Ingredients</th>
<th>C.A.S. / N.A. / UN No.</th>
<th>%</th>
<th>LD₅₀</th>
</tr>
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<tbody>
<tr>
<td>NICOTINE ALKALOID</td>
<td>CAS 54-11-5</td>
<td>13.75</td>
<td>0.5 mg/kg</td>
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<tr>
<td>POTASSIUM CHLORATE</td>
<td>3811-04-9</td>
<td>14</td>
<td>70 mg/kg</td>
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## WHMIS CLASSIFICATION

EXEMPT - PCP REGULATED

## PHYSICAL DATA

- **Physical State:** SOLID
- **Odour and Appearance:** TAN GRANULES, UNPLEASANT PUNGENT ODOR
- **Odour Threshold:** NA
- **Vapour Pressure:** NA
- **Evaporation Rate:** NA
- **Freezing Point:** NA

## FIRE AND EXPLOSION HAZARD

- **Flammability:** FLAMMABLE
- **Means of Extinction:** WEAR SELF-CONTAINED BREATHING APPARATUS. DIFFICULT TO EXTINGUISH ONCE IGNITED. COOL UNIGNITED CONTAINERS BY HOsing WITH WATER. CONTAINERS WILL BURST UNDER EXTREME HEAT. EXTINGUISHING AGENTS CO₂, DRY CHEMICAL, WATER.
- **Auto-ignition Temperature:** 175°C
- **TDG Flammability Class:** FLAMMABLE SOLID
- **Hazardous Combustion Products:** CO, CO₂, HCL, P₂O₅ DERIVATIVES, NICOTINE ALKALOID
REACTIVITY DATA

Chemical Stability: STABLE IN CLOSED CONTAINER
Incompatibility: ACIDS, ALKALINES
Conditions of Reactivity: HIGH TEMPERATURE AND HUMIDITY
Hazardous Decomposition Products: CO, CO₂, HCL, P₂O₅, NICOTINE

TOXICOLOGICAL PROPERTIES

Route of Entry: Effects of Acute or Chronic Exposure:

SKIN CONTACT - VERY TOXIC BY SKIN CONTACT, EVEN ON UNBROKEN SKIN

SKIN ABSORPTION - EASILY AND QUICKLY ABSORBED BY SKIN

EYE CONTACT - CAN BE ABSORBED THROUGH EYES

INHALATION - NICOTINE IS AN EXCEEDINLY FAST ACTING POISON, EASILY ABSORBED BY LUNGS, GASTRO INTESTINAL TRACT AND SKIN. THE LETHAL DOSE FOR AN ADULT IS ABOUT 50 mg. SMALL DOSES CAUSE NAUSEA, VOMITING, DIARRHEA, HEADACHE, DIZZINESS, NEUROLOGICAL STIMULATION, BREATHING, PERSPIRATION AND SALIVATION. LARGE DOSES CAUSE CONVULSIONS, CARDIAC ARRHYTHMIAS, UNCONSCIOUSNESS, RESPIRATORY ARREST AND DEATH IS POSSIBLE WITHIN 5 - 10 MINUTES.

INGESTION - SYMPTOMS AS FOR INHALATION. DEATH FROM POTASSIUM CHLORATE INGESTION MAY OCCUR UP TO ONE WEEK AFTER INITIAL POISONING.

Exposure Limits: Synergistic Products:
NICOTINE 0.5 mg/m³ (SKIN) NOT KNOWN

Sensitization / Irritancy:
NOT KNOWN

Carcinogenicity / Teratogenicity / Mutagenicity / Reproductive Effects:

PREVENTIVE MEASURES:

Personal Protective Equipment:
EYES - WEAR GOGGLES WHEN OPENING CANS AND WHEN VENTILATING NEXT DAY
SKIN - WEAR GLOVES AND PROTECTIVE CLOTHING WHEN OPENING CANS AND VENTILATING NEXT DAY
RESPIRATORY - WEAR SCBA IF THERE IS EXPOSURE TO SMOKE OR TO LEVELS OF NICOTINE ABOVE EXPOSURE LIMIT OF 0.5 mg/m³. SMOKE IS EXTREMELY TOXIC.

Engineering Controls:
NO ONE MUST NOT BE PRESENT WHEN SMOKE IS BEING GENERATED.

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 AND DETERGENT.
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.

Storage Requirements:
   KEEP AWAY FROM HEAT AND AWAY FROM CHILDREN. STORE IN A COOL, DRY AREA.
   DO NOT CONTAMINATE FEED OR FOOD STUFFS.

Shipping Information:
   SHIPPING NAME – LIMITED QUANTITY

FIRST AID MEASURES:
   TREATMENT SHOULD BE GIVEN IMMEDIATELY. CONTACT MEDICAL PERSONNEL IMMEDIATELY.
   NOTE TO PHYSICIAN: GIVE 1 AUTOINJECTOR OF ATROPINE IN THE MUSCLE IN THE FRONT OF THE
   THIGH HALFWAY BETWEEN KNEE AND GROIN. IF BREATHING DIFFICULTIES ARE NOT RELIEVED,
   GIVE 1 OR 2 ADDITIONAL ATROPINE INJECTIONS WITH 5 - 10 MINUTE INTERVALS, NOT MORE THAN 6 mg
   UNTIL UNDER MEDICAL CARE. IF NECESSARY GIVE ARTIFICIAL RESPIRATION, OXYGEN.

SKIN - REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED SKIN WITH LARGE AMOUNT OF
   ACIDIFIED WATER (2% ACETIC ACID).

EYES - FLUSH EYES WITH CLEAR WATER.

INHALATION - SEE FIRST AID MEASURES ABOVE

INGESTION - SEE FIRST AID MEASURES ABOVE. IMMEDIATELY ADMINISTER ACTIVATED CHARCOAL
   TO INDUCE VOMITING. REPEAT AFTER VOMITING.

ADDITIONAL INFORMATION: OPEN CAN AWAY FROM BODY. IF CANS ARE “PUFFED UP”, DO NOT OPEN.
   CONTENTS WILL BE UNDER PRESSURE. FUMIGATIONS MUST BE DONE OVER NIGHT. LOCK GREEN-
   HOUSE AND POST WARNING SIGNS DURING FUMIGATION. ONCE LIT, NO ONE MAY BE PRESENT UNLESS
   WEARING SCBA AND FULL PROTECTIVE CLOTHING.

PREPARATION INFORMATION

<table>
<thead>
<tr>
<th>Department:</th>
<th>Phone Number:</th>
<th>Date:</th>
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<tr>
<td>TECHNICAL</td>
<td>(905) 793-7000</td>
<td>JUNE 2009</td>
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NA - Not Applicable
ND - Not Determined