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**PRODUCT INFORMATION**

<b>Product Identifier</b>	<b>PLANT PRODUCTS ANTIDESICCANT</b>
<b>Manufacturer's Name</b>	PLANT PRODUCTS CO. LTD.
<b>Address</b>	314 ORENDA ROAD BRAMPTON, ONTARIO, L6T 1G1
<b>Emergency Phone Number</b>	CANUTEC (613) 996-6666
<b>Product Use</b>	ANTI-TRANSPIRANT FOR TREES

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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>
ACRYLIC POLYMER		48	
AQUA AMMONIA	1336-21-6	0.2 (MAX.)	

**WHMIS CLASSIFICATION** NOT CONTROLLED

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**PHYSICAL DATA**

<b>Physical State:</b> LIQUID	<b>Odour and Appearance:</b> MILKY COLOUR, AMMONIA ODOUR
<b>Odour Threshold:</b>	<b>Specific Gravity:</b> 1.0 – 1.2
<b>Vapour Pressure:</b> 17 mm Hg @ 20° C WATER	<b>Vapour Density:</b> < 1 WATER
<b>Evaporation Rate:</b> <1 WATER	<b>Boiling Point:</b> 100° C WATER
<b>Freezing Point:</b> 0° C	<b>Density:</b>
<b>pH:</b> 9.0 - 9.9	

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**FIRE AND EXPLOSION HAZARD**

**Flammability:** NON-COMBUSTIBLE. DRIED PRODUCT CAN BURN.

**Means of Extinction:**

USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING MATERIALS. WEAR SELF-CONTAINED BREATHING APPARATUS (MSHA/NIOSH APPROVED) AND FULL PROTECTIVE GEAR WHILE EXTINGUISHING FIRE. MATERIAL CAN SPLATTER ABOVE 100°C.

**Flashpoint:** NON-COMBUSTIBLE

**UEL:** NA

**LEL:** NA

**Auto-ignition Temperature:**

**TDG Flammability Class:**

NA

NON-FLAMMABLE

**Hazardous Combustion Products:**

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**REACTIVITY DATA**

**Chemical Stability:** CONSIDERED STABLE. AVOID TEMPERATURES ABOVE 177° C.

**Incompatibility:** NO KNOWN INCOMPATIBILITIES.

**Hazardous Polymerization:** WILL NOT OCCUR

**Conditions of Reactivity:** TEMPERATURES ABOVE 177° C

**Hazardous Decomposition Products:** THERMAL DECOMPOSITION MAY YIELD ACRYLIC MONOMERS. MONOMER VAPOURS CAN BE EVOLVED WHEN MATERIAL IS HEATED. FORMALDEHYDE WILL BE GENERATED UNDER ACIDIC CONDITIONS. MAINTAIN ADEQUATE VENTILATION TO PREVENT EXPOSURE TO FORMALDEHYDE ABOVE 0.3 PPM.

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**TOXICOLOGICAL PROPERTIES**

**Route of Entry:**

**Effects of Acute or Chronic Exposure:**

**SKIN CONTACT** - PROLONGED OR REPEATED CONTACT MAY CAUSE SLIGHT SKIN IRRITATION.

**EYE CONTACT** - MAY CAUSE SLIGHT EYE IRRITATION UPON DIRECT CONTACT.

**INHALATION** - INHALATION OF VAPOUR OR MIST MAY CAUSE HEADACHE, NAUSEA AND IRRITATION OF NOSE, THROAT AND LUNGS.

**INGESTION** - ALTHOUGH NO TOXICITY DATA IS AVAILABLE FOR THIS PRODUCT, OTHER ACRYLIC EMULSIONS

THAT ARE SIMILAR HAVE THE FOLLOWING CHARACTERISTICS:

ORAL LD<sub>50</sub> (RAT) > 5000 mg/kg

DERMAL LD<sub>50</sub> (RABBIT) > 5000 mg/kg

**Exposure Limits:**

AMMONIA - TWA 25 PPM, STEL 35 PPM (ROHM & HAAS)

**Synergistic Products:**

NONE KNOWN

**Sensitization / Irritancy:**

SEE ABOVE

**Carcinogenicity / Teratogenicity / Mutagenicity / Reproductive Effects:**

NONE KNOWN

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**PREVENTIVE MEASURES:**

**Personal Protective Equipment:**

**SKIN** - USE NEOPRENE GLOVES

**RESPIRATORY** - NOT REQUIRED UNDER NORMAL CIRCUMSTANCES

**EYES** – WEAR SPLASH PROOFED SAFETY GOGGLES. EYEWASH STATION SHOULD BE PRESENT IN FACILITY UTILIZING THIS PRODUCT. DO NOT WEAR CONTACT LENSES.

**Engineering Controls:**

USE LOCAL EXHAUST VENTILATION WITH MINIMUM CAPTURE VELOCITY OF 0.5 M/SEC. AT POINT OF VAPOUR EVOLUTION.

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**PREVENTIVE MEASURES** (continued)

**Leak or Spill Procedure:** CONTAIN SPILL WITH INERT MATERIAL SUCH AS SAND. TRANSFER LIQUIDS AND SOLID DIKING MATERIAL TO SEPARATE CONTAINERS FOR DISPOSAL. USE CAUTION AS FLOOR MAY BE SLIPPERY.

**Disposal:** COAGULATE BY STEPWISE ADDITION OF FERRIC CHLORIDE AND LIME. REMOVE CLEAR SUPERNATANT. DISPOSE OF EACH ACCORDING TO MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS.

**Handling Procedures and Equipment:** MONOMER VAPOURS MAY BE EVOLVED WHEN MATERIAL IS HEATED FOR PROCESSING. FORMALDEHYDE WILL BE GENERATED UNDER ACIDIC CONDITIONS.

**Storage Requirements:** KEEP FROM FREEZING - MAY COAGULATE IF FROZEN  
MINIMUM STORAGE TEMPERATURE IS 1° C.  
MAXIMUM STORAGE TEMPERATURE IS 60° C.

**Shipping Information:** NOT REGULATED BY TDG

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**FIRST AID MEASURES:**

**SKIN** - REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA WITH SOAP AND WATER. SEEK MEDICAL ADVICE IF IRRITATION PERSISTS.

**EYES** - IMMEDIATELY FLUSH WITH COPIOUS AMOUNTS OF WATER - CONTINUE FOR AT LEAST 15 MINUTES. SEEK MEDICAL ADVICE IF IRRITATION PERSISTS. HOLD EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYE AND LIDS WITH WATER.

**INHALATION** - REMOVE VICTIM TO FRESH AIR.

**INGESTION** - HAVE VICTIM DRINK 2 GLASSES OF WATER IF CONSCIOUS. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CONSULT A PHYSICIAN.

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**ADDITIONAL INFORMATION:**

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**PREPARATION INFORMATION**

<b>Department:</b>	<b>Phone Number:</b>	<b>Date:</b>
TECHNICAL	(905) 793-7000	OCTOBER 2009

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NA - Not Applicable  
ND - Not Determined