

## MATERIAL SAFETY DATA SHEET

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**PRODUCT INFORMATION**

Product Identifier **A-REST**

Registrant's Name PLANT PRODUCTS CO. LTD.  
Address 314 ORENDA ROAD  
BRAMPTON, ONTARIO  
L6T 1G1

Emergency Phone Number 1-613-996-6666

Product Use PLANT GROWTH REGULATOR

**HAZARDOUS INGREDIENTS**

Hazardous Ingredients	C.A.S. / N.A. / UN No.	%	LD <sub>50</sub>
ANCYMIDOL	012771-68-5	0.0264	
METHANOL	000067-56-1	< 0.5	

WHMIS CLASSIFICATION: EXEMPT – PEST CONTROL PRODUCTS ACT

**PHYSICAL DATA**

Physical State:		Odour and Appearance:	
			ODOURLESS CLEAR GREEN LIQUID
Odour Threshold (ppm):	ND	Specific Gravity:	1.0 @ 25°C
Vapour Pressure (mmHg C 25° C):	~23	Vapour Density (relative to air @25°C):	0.988
Evaporation Rate:	ND	Boiling Point (@ 1 atmosphere):	100°C
Freezing Point:	ND	Density:	
ND			
pH (aqueous 50/50):	<b>8.5-9.0</b>	Solubility in water:	<b>DISPERSES IN</b>
<b>WATER</b>			

**FIRE AND EXPLOSION HAZARD**

Flammability: PRODUCT IS MOSTLY WATER.

Means of Extinction: WEAR FULL PROTECTIVE CLOTHING AND USE POSITIVE-PRESSURE, SELF CONTAINED BREATHING APPARATUS.

Flashpoint: NA UEL: NA LEL: NA

Auto-ignition Temperature: TDG Flammability Class:

Hazardous Combustion Products: PRODUCT IS MOSTLY WATER. IF WATER EVAPORATES, HOWEVER, RESIDUE MAY PRODUCE HARMFUL VAPOURS UNDER FIRE CONDITIONS.

**REACTIVITY DATA**

Chemical Stability: STABLE UNDER NORMAL STORAGE CONDITIONS.

Incompatibility: AVOID FREEZING.

Hazardous Decomposition Products: IF WATER EVAPORATES, RESIDUE MAY PRODUCE HARMFUL VAPOURS UNDER FIRE CONDITIONS.

**TOXICOLOGICAL PROPERTIES**

Route of Entry:

Effects of Acute or Chronic Exposure:

SKIN CONTACT - PROLONGED OR REPEATED EXPOSURE NOT LIKELY TO CAUSE SIGNIFICANT SKIN IRRITATION. DID NOT CAUSE ALLERGIC SKIN REACTION WHEN TESTED IN GUINEA PIGS.

SKIN ABSORPTION - A SINGLE PROLONGED EXPOSURE IS NOT LIKELY TO RESULT IN THE MATERIAL BEING ABSORBED THROUGH SKIN IN HARMFUL AMOUNTS. THE LD<sub>50</sub> FOR SKIN ABSORPTION IN RABBITS IS GREATER THAN 5000 mg/kg. PROLONGED OR REPEATED EXPOSURES IS NOT LIKELY TO CAUSE SIGNIFICANT SKIN IRRITATION. DID NOT CAUSE ALLERGIC SKIN REACTIONS WHEN TESTED IN GUINEA PIGS.

EYE CONTACT - MAY CAUSE SLIGHT TRANSIENT (TEMPORARY) EYE IRRITATION. CORNEAL INJURY IS UNLIKELY.

INHALATION - NO ADVERSE EFFECTS ARE ANTICIPATED FROM INHALATION. THE LC<sub>50</sub> FOR RATS IS GREATER THAN 5.59 mg/L FOR 4 HOURS.

INGESTION - SINGLE DOSE ORAL TOXICITY IS EXTREMELY LOW. THE ORAL LD<sub>50</sub> FOR RATS IS GREATER THAN 5000 mg/kg. NO HAZARDS ANTICIPATED FROM SWALLOWING SMALL AMOUNTS INCIDENTAL TO NORMAL HANDLING OPERATIONS.

Exposure Limits:

Synergistic Products:

Sensitization / Irritancy:

Carcinogenicity / Teratogenicity / Mutagenicity: NOT KNOWN

Reproductive Effects: NO REPRODUCTIVE TOXICITY WAS OBSERVED IN RATS EXPOSED TO TECHNICAL MATERIAL.

**PREVENTIVE MEASURES:**

Personal Protective Equipment:

SKIN - WEAR LONG-SLEEVED SHIRT, LONG PANTS, SHOES, AND SOCKS.

INHALATION - USE APPROVED RESPIRATOR.

EYES - WEAR SAFETY GLASSES.

Engineering Controls: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST CONDITIONS.

Leak or Spill Procedure: USE ABSORBENT MATERIAL TO CONTAIN AND CLEAN UP SMALL SPILLS AND DISPOSE AS WASTE. REPORT LARGE SPILLS TO 1-(613)-996-6666 FOR ASSISTANCE. PREVENT RUNOFF.

**PREVENTIVE MEASURES (continued)**

**Disposal:** DISPOSE OF IN NON-CROP AREAS AWAY FROM WATERWAYS, IN ACCORDANCE WITH FEDERAL, PROVINCIAL AND LOCAL REGULATIONS.

**Handling Procedures and Equipment:** KEEP OUT OF REACH OF CHILDREN. AVOID BREATHING SPRAY MIST AND AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. WASH HANDS BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO, OR USING THE TOILET.

**Storage Requirements:** AVOID FREEZING. STORE IN ORIGINAL CONTAINER ONLY. DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE.

**Shipping Information:**  
NOT TDG REGULATED.

**NFPA Ratings:**

HEALTH	0	
FLAMMABILITY		0
REACTIVITY	0	

(0 – INSIGNIFICANT; 1 – SLIGHT;  
2 – MODERATE; 3 – HIGH; 4 – EXTREME)

**FIRST AID MEASURES:**

**SKIN** - WASH THOROUGHLY WITH PLENTY OF SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

**EYES** - FLUSH EYES WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

**INHALATION** - REMOVE TO FRESH AIR. GET MEDICAL ATTENTION.

**INGESTION** - DO NOT INDUCE VOMITING. CALL A PHYSICIAN OR POISON CONTROL CENTRE. IF AVAILABLE, ADMINISTER ACTIVATED CHARCOAL (6-8 HEAPING TEASPOONFUL) WITH A LARGE QUANTITY OF WATER. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION.

**NOTE TO PHYSICIAN:** NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE. TREATMENT BASED ON JUDGMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT.

**ADDITIONAL DATA –** DO NOT CONTAMINATE WATER OR WETLANDS. DO NOT CONTAMINATE WATER WHEN DISPOSING OF EQUIPMENT WASHWATERS.

**PREPARATION INFORMATION**

Department:

Phone Number:

Date:

TECHNICAL

(905) 793-7000

MAY 2007

NA - Not Applicable

ND - Not Determined