

MATERIAL SAFETY DATA SHEET

**PRODUCT INFORMATION**

**Product Identifier** PLANT-PROD **24-10-20 DRIP IRRIGATION FERTILIZER**

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

**Emergency Phone Number** 1-613-996-6666

**Product Use** WATER SOLUBLE FERTILIZER FOR DRIP IRRIGATION

**HAZARDOUS INGREDIENTS**

Hazardous Ingredients	C.A.S. / N.A. / UN No.	%	LD <sub>50</sub>
POTASSIUM NITRATE	CAS 7757-79-1	44.5	ND

**PHYSICAL DATA**

<b>Physical State:</b> SOLID	<b>Odour and Appearance:</b> DARK BLUE POWDER
<b>Odour Threshold:</b> NA	<b>Specific Gravity:</b> NA
<b>Vapour Pressure:</b> ND	<b>Vapour Density:</b> ND
<b>Evaporation Rate:</b> ND	<b>Boiling Point:</b> NA
<b>Freezing Point:</b> NA	<b>Density:</b> ND
<b>pH:</b> ND	

**FIRE AND EXPLOSION HAZARD**

**Flammability:** NON-FLAMMABLE

**Means of Extinction:**

USE FLOODING QUANTITIES OF WATER. DO NOT USE WATER JET. WEAR SCBA AND FULL PROTECTIVE CLOTHING.

<b>Flashpoint:</b> NA	<b>UEL:</b> NA	<b>LEL:</b> NA
<b>Auto-ignition Temperature:</b> ND	<b>TDG Flammability Class:</b> NON-FLAMMABLE	

**Hazardous Combustion Products:**

NH<sub>x</sub>, CO, AMMONIA, CO<sub>2</sub>, NO<sub>x</sub>, P<sub>2</sub>O<sub>5</sub>

**REACTIVITY DATA**

**Chemical Stability:** STABLE WHEN DRY  
**Incompatibility:** STRONG ACIDS, STRONG ALKALIES  
**Conditions of Reactivity:** WET CONDITIONS OR WHEN HEATED  
**Hazardous Decomposition Products:** P<sub>2</sub>O<sub>5</sub>, CO, NH<sub>3</sub>, NO<sub>x</sub>

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**TOXICOLOGICAL PROPERTIES**

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

**SKIN CONTACT** - IRRITATION COULD OCCUR WITH PROLONGED EXPOSURE TO DRY FERTILIZER OR FERTILIZER SOLUTION. CONTACT WITH HEATED MATERIAL MAY CAUSE THERMAL BURNS.

**SKIN ABSORPTION** - NOT KNOWN TO BE ABSORBED THROUGH THE SKIN.

**EYE CONTACT** - IRRITATION COULD OCCUR IF FERTILIZER SOLUTION IS SPLASHED IN EYES OR DRY PRODUCT CONTACTED. HEATED MATERIAL MAY CAUSE THERMAL BURNS.

**INHALATION** - VERY LOW VAPOUR ACTIVITY. IF HEATED COULD RELEASE AMMONIA GAS. CAN CAUSE RESPIRATORY TRACT IRRITATION.

**INGESTION** - EXCESSIVE INGESTION MUST OCCUR BEFORE ANY HEALTH HAZARD RESULTS. EFFECTS OF OVEREXPOSURE MAY INCLUDE NAUSEA, VOMITING, DIARRHEA, WEAKNESS OR CONVULSIONS.

**Exposure Limits:** ND **Synergistic Products:** ND

**Sensitization / Irritancy:** UREA CAN CAUSE ALLERGIC REACTIONS IN SOME INDIVIDUALS.

**Carcinogenicity / Teratogenicity /Mutagenicity / Reproductive Effects:** NONE KNOWN

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**PREVENTIVE MEASURES:**

**Personal Protective Equipment:**  
**RESPIRATORY** - DUST MASK IF CONDITIONS WARRANT  
**EYES** - WEAR SAFETY GLASSES TO AVOID EYE CONTACT. DO NOT WEAR CONTACT LENSES.  
**GLOVES** - WEAR IMPERMEABLE GLOVES TO AVOID SKIN CONTACT

**Engineering Controls:**  
VENTILATE TO CONTROL DUST

**Leak or Spill Procedure:**  
CONTAIN THE SPILL. SWEEP UP SPILLED MATERIAL AND USE OR DISPOSE OF IN APPROVED MANNER. PREVENT ENTRY INTO WATERWAYS.

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**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:**

AVOID DIRECT AND PROLONGED CONTACT WITH SKIN.

**Storage Requirements:**

KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL DRY LOCATION

**Shipping Information:**

NOT REGULATED BY TDG

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**FIRST AID MEASURES:**

**SKIN** - WASH WITH SOAP AND WATER. THERMAL BURNS REQUIRE IMMEDIATE MEDICAL ATTENTION. FLUSH AFFECTED AREAS WITH LARGE AMOUNT OF COLD WATER.

**EYES** - FLUSH IMMEDIATELY WITH WATER FOR 15 MINUTES OR UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS, SEEK MEDICAL ADVICE.

**INHALATION** - IF AMMONIA GAS IS INHALED FROM HEATED FERTILIZER AND BREATHING HAS STOPPED BEGIN ARTIFICIAL RESPIRATION. IF BREATHING IS LABOURED GIVE OXYGEN. SEEK MEDICAL ATTENTION.

**INGESTION** - FOR LARGE AMOUNTS SEEK MEDICAL ATTENTION IMMEDIATELY. GIVE WARM WATER AND INDUCE VOMITING.

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**PREPARATION INFORMATION**

**Department:**

**Phone Number:**

**Date:**

TECHNICAL

(905) 793-7000

OCTOBER 2006

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NA - Not Applicable  
ND - Not Determined