

MATERIAL SAFETY DATA SHEET

**PRODUCT INFORMATION**

**Product Identifier** **PLANTEX 30-10-10 WATER SOLUBLE 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 PLANTS

**HAZARDOUS INGREDIENTS**

Hazardous Ingredients	C.A.S. / N.A. / UN No.	%	LD <sub>50</sub>
POTASSIUM NITRATE	CAS 7757-79-1	23	3750 mg/kg (ORAL, RAT) 1901 mg/kg (ORAL, RAB)
COPPER EDTA	CAS 14025-15-1	0.4	1000 mg/kg (ORAL, RAT)
MANGANESE EDTA	CAS 15375-84-5	0.5	2000 mg/kg (ORAL, RAT)
ZINC EDTA	CAS 14025-21-9	0.4	2000 mg/kg (ORAL, RAT)
NITRILOTRIACETIC ACID	CAS 5064-31-3	0.04	ND

**PHYSICAL DATA**

<b>Physical State:</b> SOLID	<b>Odor and Appearance:</b> COARSE POWDER, SLIGHT AMMONIA ODOR
<b>Odor Threshold:</b> NA	<b>Specific Gravity:</b> NA
<b>Vapor Pressure:</b> ND	<b>Vapor Density:</b> ND
<b>Evaporation Rate:</b> ND	<b>Boiling Point:</b> NA
<b>Freezing Point:</b> NA	<b>Density:</b> 1.1 g/mL
<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 IF PRODUCT IS INVOLVED IN A FIRE.

**Flashpoint:** NA                      **UEL:** NA                      **LEL:** NA  
**Auto-ignition Temperature:** ND                      **TDG Flammability Class:**  
NON-FLAMMABLE

**Hazardous Combustion Products:**  
MAY RELEASE HYDROGEN CYANIDE, CARBON MONOXIDE, AMMONIA, OXIDES OF NITROGEN AND PHOSPHORUS WHEN DECOMPOSED.

**REACTIVITY DATA**

**Chemical Stability:** STABLE WHEN DRY

**Incompatibility:** STRONG ACIDS, STRONG ALKALIES, OXIDIZERS, ORGANICS

**Conditions of Reactivity:** WET CONDITIONS OR WHEN HEATED

**Hazardous Decomposition Products:** AMMONIA, OXIDES OF NITROGEN AND PHOSPHORUS OF PHOSPHORUS

**TOXICOLOGICAL PROPERTIES**

**Route of Entry:**

**Effects of Acute or Chronic Exposure:**

**SKIN CONTACT** – IRRITATION COULD OCCUR WITH 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 CONTACTS EYES. HEATED MATERIAL MAY CAUSE THERMAL BURNS.

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

**INGESTION** –EFFECTS OF OVEREXPOSURE MAY INCLUDE NAUSEA, VOMITING, DIARRHEA, WEAKNESS OR CONVULSIONS.

**Exposure Limits:**

**Synergistic Products:**

POTASSIUM NITRATE **ACGIH TLV**

**TWA** – 5 mg/m<sup>3</sup> 8 HOURS DUST

MANGANESE EDTA **OSHA**

**PEL** – 5 mg/m<sup>3</sup> (CEILING EXPOSURE LIMIT)

**PEL/TWA** – 15 mg/m<sup>3</sup> TOTAL DUST; 5 mg/m<sup>3</sup> RESPIRABLE FRACTION

**ACGIH TVL**

**TWA** - 0.2 mg/m<sup>3</sup>

**NIOSH REL**

**TWA** – 1 mg/m<sup>3</sup>

**STEL** – 3 mg/m<sup>3</sup>

**IDLH** 500 mg/m<sup>3</sup>

ZINC EDTA **OSHA**

**PEL/TWA** - 15 mg/m<sup>3</sup> TOTAL DUST; 5 mg/m<sup>3</sup> RESPIRABLE FRACTION

COPPER EDTA **OSHA PEL/ ACGIH TVL-TWA/NIOSH REL** 1 mg/m<sup>3</sup>

**OSHA**

**PEL/TWA** - 15 mg/m<sup>3</sup> TOTAL DUST; 5 mg/m<sup>3</sup>; RESPIRABLE FRACTION

BORIC ACID **ACGIH TLV**

**TWA** – 2 mg/m<sup>3</sup> 8 HOURS; INHALABLE FRACTION

**STEL** – 6 mg/m<sup>3</sup> 15 MINUTES; INHALABLE FRACTION

ND

**Sensitization / Irritancy:**

UREA CAN CAUSE ALLERGIC REACTIONS IN SOME INDIVIDUALS

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

BORIC ACID MAY CAUSE BIRTH DEFECTS AND IMPAIR MALE FERTILITY BASED ON ANIMAL DATA.

NITRILOTRIACETIC ACID (NTA) AND ITS SALTS WERE DETERMINED TO BE “POSSIBLY CARCINOGENIC TO HUMANS” BY IARC, A COMPOUND WHICH “MAY REASONABLY BE ANTICIPATED TO BE A HUMAN CARCINOGEN” BY NTP AND A “SELECT CARCINOGEN” BY OSHA.

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**PREVENTIVE MEASURES:**

**Personal Protective Equipment:**

**RESPIRATORY** – DUST MASK IF CONDITIONS WARRANT TO AVOID BREATHING PRODUCT.  
**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.

**Disposal:**

DISPOSE OF IN NON CROP AREAS AWAY FROM WATERWAYS, IN ACCORDANCE WITH FEDERAL 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 PLACE.

**Shipping Information:**

NOT REGULATED

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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. SEEK MEDICAL ATTENTION.

**EYES** – FLUSH IMMEDIATELY WITH LARGE AMOUNT OF WATER FOR AT LEAST 15 MINUTES OR UNTIL IRRITATION SUBSIDES. 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.

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**ADDITIONAL INFORMATION**

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**PREPARATION INFORMATION**

**Department:**

**Phone Number:**

**Date:**

TECHNICAL

(905) 793-7000

JULY 2012

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NA - Not Applicable

ND - Not Determined