

MATERIAL SAFETY DATA SHEET

1 of 3

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.	%	LD₅₀
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

Physical State: SOLID	Odor and Appearance: COARSE POWDER, SLIGHT AMMONIA ODOR
Odor Threshold: NA	Specific Gravity: NA
Vapor Pressure: ND	Vapor Density: ND
Evaporation Rate: ND	Boiling Point: NA
Freezing Point: NA	Density: 1.1 g/mL
pH: 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/m³ 8 HOURS DUST

MANGANESE EDTA **OSHA**

PEL – 5 mg/m³ (CEILING EXPOSURE LIMIT)

PEL/TWA – 15 mg/m³ TOTAL DUST; 5 mg/m³ RESPIRABLE FRACTION

ACGIH TVL

TWA - 0.2 mg/m³

NIOSH REL

TWA – 1 mg/m³

STEL – 3 mg/m³

IDLH 500 mg/m³

ZINC EDTA **OSHA**

PEL/TWA - 15 mg/m³ TOTAL DUST; 5 mg/m³ RESPIRABLE FRACTION

COPPER EDTA **OSHA PEL/ ACGIH TVL-TWA/NIOSH REL** 1 mg/m³

OSHA

PEL/TWA - 15 mg/m³ TOTAL DUST; 5 mg/m³; RESPIRABLE FRACTION

BORIC ACID **ACGIH TLV**

TWA – 2 mg/m³ 8 HOURS; INHALABLE FRACTION

STEL – 6 mg/m³ 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.

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

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.

ADDITIONAL INFORMATION

PREPARATION INFORMATION

Department:

Phone Number:

Date:

TECHNICAL

(905) 793-7000

JULY 2012

NA - Not Applicable
ND - Not Determined