MATERIAL SAFETY DATA SHEET

PRODUCT INFORMATION

Product Identifier **PLANT-PROD 20-3-30 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_{50}
POTASSIUM NITRATE	CAS 7757-79-1	66	ND

WHMIS CLASSIFICATION: CLASS C - OXIDIZER

PHYSICAL DATA

Physical State:
SOLID

Odour and Appearance:
FINE POWDER, SLIGHT AMMONIA ODOUR

Odour Threshold: NA
Vapour Pressure: ND
Evaporation Rate: ND
Freezing Point: NA
pH: ND

Specific Gravity: NA
Vapour Density: ND
Boiling Point: NA
Density: 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. THIS MATERIAL IS AN OXIDIZER AND THEREFORE INCREASES THE INTENSITY OF ANY FIRE AND POSSIBILITY OF AN EXPLOSION

Flashpoint: NA **UEL:** NA **LEL:** NA

Auto-ignition Temperature:
ND

TDG Flammability Class:
NON-FLAMMABLE

Hazardous Combustion Products:
MAY RELEASE CARBON MONOXIDE, AMMONIA, OXIDES OF NITROGEN 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, NITRATES, NITRITES

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, HEADACHE, MENTAL IMPAIRMENT, VOMITING, BLOODY DIARRHEA, DIZZINESS, ABDOMINAL CRAMPS, 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

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. AVOID CONTACT WITH COMBUSTIBLES, ORGANICS AND IGNITION SOURCES. SWEEP UP SPILLED MATERIAL AND USE OR DISPOSE OF IN APPROVED MANNER. PREVENT ENTRY INTO WATERWAYS, SEWERS, BASEMENTS OR CONFINED AREAS.

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. AVOID BREATHING DUST.

Storage Requirements:

KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL, DRY PLACE. AVOID STORING WITH OXIDIZABLE OR FLAMMABLE MATERIALS.

Shipping Information:

SHIPPING NAME - **POTASSIUM NITRATE MIXTURE**
UN NUMBER - **1486** PACKING GROUP - **III**
PLACARD - **5.1 OXIDIZER**

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 LARGE AMOUNT OF WATER FOR AT LEAST 30 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.

ADDITIONAL INFORMATION

PREPARATION INFORMATION

Department:	**Phone Number:**	**Date:**
TECHNICAL	(905) 793-7000	AUGUST 2011

NA - Not Applicable
ND - Not Determined