

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: <b>Growth Booster</b>	
PRODUCT USE: Fertilizer -WHMIS CLASSIFICATION: Not WHMIS Controlled	
MANUFACTURER'S NAME: Grotek Manufacturing Inc.	SUPPLIER'S NAME: Grotek
STREET ADDRESS: #284, 505-210 <sup>th</sup> Street, Langley, BC V1M 2Y2	STREET ADDRESS: #284, 505-210 <sup>th</sup> Street, Langley, BC V1M 2Y2
IN CASE OF EMERGENCY: (604) 882-7686	

## SECTION 2 - HAZARDOUS INGREDIENTS

Non - HAZARDOUS INGREDIENTS	%	CAS #	LD <sub>50</sub> OF INGREDIENT (SPECIFY SPECIES & ROUTE)	LC <sub>50</sub> OF INGREDIENT (SPECIFY SPECIES)
Diammonium Phosphate	60-100	7783-28-0	LD <sub>50</sub> (oral, rat) = 6500 mg/kg	NAP

Health effects data presented are precautionary.  
Toxicological properties do not exceed WHMIS classification criteria

## SECTION 3 - PHYSICAL DATA

PHYSICAL STATE:	ODOUR & APPEARANCE: Slight ammonia odor ODOUR THRESHOLD (ppm): NAV			
VAPOUR PRESSURE: (mmHg) NAV	VAPOUR DENSITY: (Air=1) NAV	EVAPORATION RATE: NAV	BOILING POINT: (°C) NAV	FREEZING POINT: (°C) NAV
pH: 7.4-8.0 in 1% solution	SPECIFIC GRAVITY: NAV	COEFF. WATER/OIL DIST. NAV		SOLUBILITY: Very soluble (68-70 g/100 ml @20°C)

## SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY: Not flammable

IF YES UNDER WHAT CONDITIONS?

MEANS OF EXTINCTION: For fires involving this product, water, fog, carbon dioxide, foam or dry chemical may be used

SPECIAL PROCEDURES: Use extinguishing agent suitable for type of surrounding fire. Avoid excessive water to minimize runoff.

FLASHPOINT (°C) AND METHOD: NAP	UPPER FLAMMABLE LIMIT (% BY VOLUME): NAP	LOWER FLAMMABLE LIMIT: (% BY VOLUME): NAP
AUTOIGNITION TEMPERATURE (C) NAP	HAZARDOUS COMBUSTION PRODUCTS: phosphorous oxides and nitrogen oxides maybe released in a fire	
EXPLOSION DATA » SENSITIVITY TO IMPACT: NAP		SENSITIVITY TO STATIC DISCHARGE: NAP

## SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY: Stable under normal condition of use. Avoid excessive heat

INCOMPATIBILITY: Avoid contact with strong oxidizing agents & strong bases

CORROSIVE BEHAVIOUR: not-corrosive

REACTIVITY AND UNDER WHAT CONDITIONS: Avoid contact with alkalis and heat.

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition, oxides of phosphorus, oxides of nitrogen (NO, NO<sub>2</sub>, NO<sub>x</sub> and ammonia (NH<sub>3</sub>) vapors are released.

**SECTION 6 – TOXICOLOGICAL PROPERTIES**

ROUTE OF ENTRY: SKIN CONTACT: Yes—SKIN ABSORPTION: No EYE CONTACT: Yes—INHALATION: No—INGESTION: Yes

**EFFECTS OF ACUTE EXPOSURE TO PRODUCT:**

Ingestion – Low degree of toxicity by ingestion.

Inhalation – No information available. Studies by other exposure routes suggest a low degree of hazard by inhalation.

EFFECTS OF CHRONIC EXPOSURE: irritation of skin and eye

EXPOSURE LIMITS: NAV

SYNERGISTIC PRODUCTS: NAV	IRRITANCY: NAV	SENSITIZATION: NAV	CARCINOGENICITY: NAV
TERATOGENICITY: NAV	REPRODUCTIVE HAZARD: NAV	MUTAGENICITY: NAV	

**SECTION 7 – PREVENTIVE MEASURES**

**PERSONAL PROTECTIVE EQUIPMENT:** Hands: wear water resistant rubber (latex, butyl), or plastic gloves (PVC), Respirator: wear- NIOSH approved chemical cartridge filter to remove dust particles if product application is dusty, Eye – wear goggles. Footwear: work boots/rubber boots, clothing – long sleeve and pants.

**ENGINEERING CONTROLS:** General mechanical ventilation is adequate, avoid splashing.

**LEAK AND SPILL PROCEDURE:** Wear recommended personal protective equipment during clean-up. Small quantities of liquid waste may be flushed to drain.

**WASTE DISPOSAL:** Disposal in accordance Federal, Provincial & Municipal waste regulations.

**HANDLING PROCEDURES AND EQUIPMENT:** Do not handle unless safety precaution have been read and understood, avoid eye and skin contact. Avoid inhalation of mist or aerosol. Do not puncture, drag or slide container.

**STORAGE REQUIREMENTS:** Store in cool, dry area and well ventilated area. Avoid storage on wood floors. Separate from combustibles, organic or other readily oxidizable materials, including acids, alkalis, reducing agents. Keep container closed.

**SPECIAL SHIPPING INFORMATION:** Not regulated for transport in Canada

**SECTION 8 – FIRST AID MEASURES**

**EYE CONTACT:** Flush eyes thoroughly while holding both upper and lower eye lids for a minimum of 15 minutes. Obtain medical attention.

**SKIN CONTACT:** Remove contaminated clothing. Wash affected area with water for a minimum of 15 minutes. Obtain medical attention if irritation or redness persists.

**INHALATION:** If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

**INGESTION:** Do not attempt to give anything by mouth to unconscious victim. If victim is alert and not convulsing, rinse mouth and give water to dilute material. Do not induce vomiting without physician's direction. If vomiting occurs, have victim lean forward with head down to avoid breathing in vomit, rinse mouth. Obtain medical attention immediately.

**SECTION 9 – PREPARATION DATE OF MSDS**