

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: Growth Max

PRODUCT USE: Fertilizer WHMIS CLASSIFICATION: Not a WHMIS controlled product

MANUFACTURER'S NAME: Grotek Manufacturing Inc.

SUPPLIER'S NAME: Grotek Manufacturing Inc.

STREET ADDRESS: #284-505 8840-210th Street, Langley, BC
V1M 2Y2

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IN CASE OF EMERGENCY: (604) 882-7686

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS #	LD ₅₀ OF INGREDIENT (SPECIFY SPECIES and ROUTE)	LC ₅₀ OF INGREDIENT (SPECIFY SPECIES)
Non Hazardous Ingredients Liquid Seaweed Concentrate is a modified Ascophyllum nodosum marine plant (alga) extraction composed of alginate, protein, fats, carbohydrates, marine salts, and trace elements	100	NAV	NAV	NAP
Health effects data presented are precautionary. Product is non-toxic.				

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE: Liquid	ODOUR & APPEARANCE: Seaweed odour, viscous brownish-black liquid			ODOUR THRESHOLD (ppm): NAV
VAPOUR PRESSURE: (mmHg) NAV	VAPOUR DENSITY: (Air=1) NAV	EVAPORATION RATE: NAV	BOILING POINT:	FREEZING POINT °C Estimated <0°C
pH: 9.5-10	SPECIFIC GRAVITY: NAV	COEFF. WATER/OIL DIST. NAV		SOLUBILITY: 100% by weight in water

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY: Not flammable

IF YES UNDER WHAT CONDITIONS?

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

SPECIAL PROCEDURES: Water based product. Treat surrounding fire. Beware of slippery floors if spillage occur in wet areas during firefighting.

FLASHPOINT (°C) AND METHOD: NAP	UPPER FLAMMABLE LIMIT (%): NAP	LOWER FLAMMABLE LIMIT: (%): NAP
AUTOIGNITION TEMPERATURE (°C) NAP	HAZARDOUS COMBUSTION PRODUCTS: Sulphur oxides	

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 acids and oxidizing agents
will cause degradation

CORROSIVE BEHAVIOUR: Non corrosive

REACTIVITY AND UNDER WHAT CONDITIONS: NAV

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of sulphur

SECTION 6 - TOXICOLOGICAL PROPERTIES

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

EFFECTS OF ACUTE EXPOSURE TO PRODUCT:
 Ingestion ñ Non toxic, greatest danger from ingesting large quantities is intestinal obstruction.
 Inhalation ñ Aerosol and mist may cause a chemical pneumontis
 Eye contact ñ Non toxic, consider foreign body.
 Skin contact ñ Non irritating.

EFFECTS OF CHRONIC EXPOSURE: Prolonged exposure may cause irritation of skin and respiratory tract.

EXPOSURE LIMITS: 10 mg/m³ Workers' Compensation Board of British Columbia 8-Hour Exposure Limit for Nuisance Dust

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

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Hands: wear water resistant rubber (butyl), or plastic gloves (PVC). Respirator: wear- NIOSH approved respirator and particulate cartridges to remove aerosol /mist during product application. Eyes: wear goggles. Footwear: wear work boots/rubber boots. Clothing: wear long sleeve shirt and pants.

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

LEAK AND SPILL PROCEDURE: Wear necessary personal protective equipment during clean-up to prevent slips, use sponges to remove product and wash remaining small quantities of liquid may be flushed to drain. Product is gummy and becomes very slippery as water is added.

WASTE DISPOSAL: Dispose of in accorandance with Federal, Provincial and 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.

STORAGE REQUIREMENTS: Store in cool, dry and well ventilated area. Separate from acids or oxidizable materials. Keep container closed.

SPECIAL SHIPPING INFORMATION: TDG Regulation -Not a TDG regulated product in Canada.

SECTION 8 - FIRST AID MEASURES

INHALATION: Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped, assist breathing with oxygen. Obtain medical assistance immediately.

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

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

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 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

PREPARED BY: Grotek Manufacturing Inc.	BUS NUMBER: 604-882-7686	ADDITIONAL INFORMATION: At the time of preparation, the information and data contained in this MSDS are believed to be accurate and have been compiled from sources that are believed to be reliable
DATE: June 7, 2006		