

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER:	Heavy Bloom		
PRODUCT USE:	NAV	WHMIS CLASSIFICATION:	D2B
MANUFACTURER'S NAME:	Grotek Manufacturing Inc.	SUPPLIER'S NAME:	Same as manufacturer
ADDRESS:	284,505 8840 210 th Street, Langley, BC V1M 2Y2	ADDRESS:	Same as manufacturer
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)
Potassium Sulphate	1 - 5 %	7778-80-5	LD ₅₀ (rat, oral) >6,600 mg/kg	NAV
Potassium Phosphate	1 - 5 %	7778-77-0	NAV	NAV

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE:	Liquid	ODOUR & APPEARANCE	Tea brown/green liquid . Odourless.
ODOUR THRESHOLD (ppm):	NAP	VAPOUR PRESSURE (mmHg):	Negligible
VAPOUR DENSITY (air=1):	NAP	SPECIFIC GRAVITY:	> 1
pH:	3.4	BOILING POINT (°C)	> 100°C
FREEZING POINT (°C)	NAV	EVAPORATION RATE:	NAP
COEFF. WATER/OIL DIST	NAV	SOLUBILITY (in water):	Moderately soluble

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABLE:	Not combustible.		
IF YES, UNDER WHAT CONDITIONS?	NAP		
MEANS OF EXTINCTION:	Water spray or fog, dry chemical, alcohol foam, or carbon dioxide.		
SPECIAL PROCEDURES:	NAP		
FLASHPOINT (°C) & METHOD:	NAV	AUTOIGNITION TEMPERATURE (°C)	NAP
LOWER FLAMMABLE LIMIT (% by volume):	NAP	UPPER FLAMMABLE LIMIT (% by volume):	NAP
SENSITIVITY TO IMPACT:	No evidence	SENSITIVITY TO STATIC DISCHARGE:	No evidence
HAZARDOUS COMBUSTION PRODUCTS:	Sulfur oxides, phosphorus oxides and phosphine.		

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY:	Stable under normal conditions.		
INCOMPATIBILITY:	Oxidizing agents, strong acids and bases.	CORROSIVE BEHAVIOUR:	Mildly corrosive to Aluminum.
REACTIVITY AND UNDER WHAT CONDITIONS:	Keep away from incompatible materials.		
HAZARDOUS DECOMPOSITION PRODUCTS:	See hazardous combustion products (section 4).		

NAP: Not applicable NAV: Not available

SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY:

SKIN CONTACT:	Yes	SKIN ABSORPTION:	No	EYE CONTACT:	Yes	INHALATION:	Yes	INGESTION:	Yes
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EFFECTS OF ACUTE EXPOSURE TO PRODUCT:

INGESTION: Ingestion of large amounts may cause the following symptoms: gastrointestinal tract irritation, abdominal pain, nausea, vomiting, diarrhea, weakness, confusion, hypotension and failure of the cardiac or respiratory system.

INHALATION: May cause upper respiratory tract irritation.

EYE CONTACT: May cause eye irritation.

SKIN CONTACT: May cause skin irritation and an allergic skin sensitization.

EFFECTS OF CHRONIC EXPOSURE:

Chronic exposure may cause an allergic skin sensitization, dermatitis, and a decrease in the immune response. Inorganic phosphorus compounds may cause irritation and hemorrhages in the stomach. Other possible chronic health effects include liver and kidney damage. Bone structure may also be attacked, especially the jaw and teeth.

EXPOSURE STANDARDS:

COMPOUND:	STANDARD:	REGULATORY AGENCY:
Potassium Sulphate	NAV	NAV
Potassium Phosphate	NAV	NAV
CARCINOGENICITY:	Not listed	MUTAGENICITY: No evidence
REPRODUCTIVE HAZARD:	No evidence	TERATOGENICITY: No evidence
IRRITANCY:	Yes	SENSITIZATION: Yes
SYNERGISTIC PRODUCTS:	NAV	

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:	<p>Glove and Eye Protection : Wear water impervious safety gloves, chemical safety goggles and a full face shield if splashing may occur.</p> <p>Clothing: Wear coveralls with impervious apron to protect street clothing.</p> <p>Respirator: A NIOSH approved dust and mist air-purifying respirator with NIOSH type N95 or better filters.</p>
ENGINEERING CONTROLS:	Use containment whenever possible and good general ventilation.
HANDLING PROCEDURES:	Use containment whenever possible and personal protective equipment where splashing or contact potential exists. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking or smoking.
STORAGE REQUIREMENTS:	Protect against physical damage. Store in cool, dry place. Keep separate from incompatible materials.
LEAK AND SPILL PROCEDURE:	Isolate hazard area. Ventilate area of spill or leak. Remove all sources of ignition. Wear appropriate personal protective equipment. Keep unnecessary and unprotected personnel from entering. Contain and recover spilled material where possible into containers for later disposal.
WASTE DISPOSAL:	Dispose of in compliance with government requirements and local disposal regulations.
SHIPPING INFORMATION:	Not regulated.

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 if symptoms persist.
SKIN CONTACT:	Remove contaminated clothing. Wash affected area with water for a minimum of 15 minutes. Obtain medical attention if irritation or redness persists.
EYE CONTACT:	Flush eyes thoroughly while holding both upper and lower eye lids for a minimum of 15 minutes. Obtain 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

PREPARED BY: Vizon SciTec Inc.	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.
BUSINESS NUMBER: 604-224-4331	
DATE: March 2, 2005.	