MATERIAL SAFETY DATA SHEET

| SECTION 1 – PRODUCT IDENTIFICATION AND USE | | | | | | | | | |
|--|---|--------------------------|--------------------------------------|-------------------|---|--------|---|---------------|--|
| PRODUCT IDENTIFIER: Monster Grow | | | | | | | | | |
| | Fertilizer WHMIS CLASSIFICATION: D2-B | | | | | | | | |
| MANUFACTURER'S NAME: | | | | | 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 RO | UTE) | LC ₅₀ OF INGREDIE (SPECIFY SPECIES) | | |
| Ammonium Nitrate | | 10-20% | 6484-52-2 | | LD ₅₀ (rat, oral) 2217/mg/kg | 5 | NAP | | |
| Potassium Sulphate | | 5-10% | 7778-80-5 | | LD ₅₀ (rat, oral) 6600 mg/kg | | NAP | | |
| Potassium Nitrate | | 10-15% | 7757-79-1 | | LD ₅₀ (rat, oral) 3750 mg/kg | | NAP | | |
| Monopotassium Phosphate | | 5-10% | 7778-77-0 | | LD ₅₀ (skin, rabbit) >4640 mg | g/kg | /kg NAP | | |
| Calcium Nitrate | | 10-20% | 10124-37-5 | | LD ₅₀ (rat, oral) 302 mg/kg | | NAP | | |
| Magnesium Nitrate | | 5-10% | 10377-60-3 | | LD ₅₀ (rat, oral) 5440 mg/kg | 5 | NAP | | |
| SECTION 3 – PHYSICAL DATA | | | | | | | | | |
| PHYSICAL STATE: | Solid (| powder form) | owder form) | | ODOUR & APPEARANCE | | Odourless, Green color powder with different size particles | | |
| ODOUR THRESHOLD (ppm): | NAV | | | VAP | VAPOUR PRESSURE (mmHg): | | Negligible | | |
| VAPOUR DENSITY (air=1): | NAP | | | SPECIFIC GRAVITY: | | >1 | | | |
| pH: | 3.76 (1 | 3.76 (1g/100ml solution) | | | LING POINT (°C) | NAP | NAP | | |
| FREEZING POINT (°C) | NAV | | | | PORATION RATE: | NAP | NAP | | |
| COEFF. WATER/OIL DIST | NAV | | | | UBILITY (in water): | Highl | Highly soluble in water | | |
| | SEC ₁ | TION 4 – 1 | FIRE AN | ND I | EXPLOSION DAT | A | | | |
| FLAMMABLE: No | | | | | | | | | |
| IF YES, UNDER WHAT CONDI | TIONS? | Even thoug | h product is | not co | mbustible, it can contribute to | combu | ıstion as a soı | arce of fuel. | |
| MEANS OF EXTINCTION: | Water s | pray or fog, foa | am, Carbon d | lioxide | e or halon | | | | |
| SPECIAL PROCEDURES: | If possib | ole remove con | tainers from | fire ar | ea without risk. Spray water f | rom as | far a distance | as possible. | |
| FLASHPOINT (°C) & METHOD: NAV | | | AUTOIGNITION TEMPERATURE (°C) | | | NAP | | | |
| LOWER FLAMMABLE LIMIT (% by volume): | INAP | | UPPER FLAMMABLE LIMI' (% by volume): | | NAP | | | | |
| SENSITIVITY TO IMPACT: | Some evidence | | | | ENSITIVITY TO STATIC ISCHARGE: | No | No evidence | | |
| HAZARDOUS COMBUSTION PRODUCTS: Nitrogen Oxides, Ammonia, Phosphorus Oxides, Phosphine, Potassium Nitrate, Potassium Peroxide, Sulfur Oxides, Magnesium Oxides, Potassium Oxides, Nitric acid | | | | | | | | | |
| fumes, Nitrogen Dioxide and Nitrogen Tetroxide. SECTION 5 – REACTIVITY DATA | | | | | | | | | |
| CHEMICAL STABILITY: | Stable u | nder normal co | onditions | | | | | | |
| INCOMPATIBILITY: | Oxidizable substances, powdered metals, ammonia, hydrazine, reducing agents, strong acids and bases, alkyl esters, dimethyl formamide, methenamine, ethoxyethynyl alcohols, magnesium and chlorine trifluoride. CORROSIVE BEHAVIOUR: | | | | | | | | |
| REACTIVITY AND UNDER WHAT Keep away from ignition sources, shock, water/moisture, heat and incompatible materials. | | | | | | | | | |
| HAZARDOUS DECOMPOSITION PRODUCTS: See hazardous combustion products (Section 4). | | | | | | | | | |

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| | | SECTI | ON 6 – T | OXIC | COLOGICAL | PRC | PERTIES | | | | | | |
| ROUTES OF ENTRY: | | 07.577.43 | | 1 | | | | | | 1 1/ | | | |
| SKIN CONTACT: EFFECTS OF ACUTE I | Yes | | BSORPTION: | Yes | EYE CONTACT: | Yes | INHALATION: | No | INGESTION: | Yes | | | |
| | | | | | | 1. | | • • | 1 | | | | |
| INGESTION: | vomit convu | ing and bl | loody diarrhea collapse. Oth | . Ingester symp | gastrointestinal irrit tion may also cause l toms may include bl g in the formation o | headach ue lips | es, laboured breath or fingernails and b | ning, co | onfusion, dizzines | ss, | | | |
| INHALATION: | NAP | | | | | | | | | | | | |
| EYE CONTACT: | May cause eye irritation | | | | | | | | | | | | |
| SKIN CONTACT: | May c | ause skin | irritation | | | | | | | | | | |
| EFFECTS OF CHRONI | IC EXP | OSURE: | | | | | | | | | | | |
| Chronic exposure may dermatitis or an allergic of methaemoglobin. Inc structure may be attack | c skin se organic | ensitizatior phosphort | n may also dev us compounds | elop fro | m repeated exposur | e. Other | r symptoms include | e anem | nia and the format | | | | |
| EXPOSURE STANDA | RDS: | | | | | | | | | | | | |
| COMPOUND: S | | | STANDARI | STANDARD: | | | | | REGULATORY AGENCY: | | | | |
| Ammonium Nitrate | | NAV | NAV | | | | NAP | | | | | | |
| Potassium Sulphate NA | | NAV | NAV | | | | | NAP | | | | | |
| Potassium Nitrate | | | NAV | AV | | | NAP | NAP | | | | | |
| Monopotassium Phosp | osphate NAV | | | AV | | | NAP | NAP | | | | | |
| Calcium Nitrate | nte NA' | | | JAV | | | NAP | NAP | | | | | |
| Magnesium Nitrate | agnesium Nitrate NAV | | | V | | | | | | | | | |
| MUTAGENICITY: | NICITY: Evid | | | idence in Escherichia coli (Bacteria) | | | | | | | | | |
| REPRODUCTIVE HAZARD: | | Evidence in Rats | | TERATOGENICITY: | | Evidence in | Evidence in Rats | | | | | | |
| IRRITANCY: Ye | | Yes | | SENSITIZATION | I: | Yes | Yes | | | | | | |
| SYNERGISTIC PROD | UCTS: | | NAV | | | | | | | | | | |
| | | SE | CTION 7 | – PR | EVENTIVE | MEA | SURES | | | | | | |
| NIOS – we | | | | | Hands wear: water resistant rubber type gloves (latex, nitrile, PVC). Respirator: wear-NIOSH approved dust filter cartridge to remove dust where dust is visually airborne, Eye – wear goggles, Footwear- work boot/rubber boots, Clothing – Long sleeve and pants - no special clothing required. | | | | | | | | |
| ENGINEERING CONTROLS: | | | Gener | General mechanical ventilation is adequate, minimize dust generation. | | | | | | | | | |
| HANDLING PROCEDURES: Do not handle unless safety precaution have been read and understood, avo skin contact. Avoid inhalation of dust or vapours. Do not puncture, drag or container. | | | | | | e, drag or slide | nd | | | | | | |
| STORAGE REQUIREM | MENTS | : | Store | in cool, | dry area and well ve | ntilated | area. Keep contain | er clos | sed. | | | | |
| LEAK AND SPILL PRO | OCEDU | TRE: | | Wear necessary personal protective equipment during clean-up, vacuum, avoid creating dust, Place in properly labeled containers for later disposal. | | | | | | | | | |
| WASTE DISPOSAL: | Disposal in accordance Federal, Provincial & Municipal waste regulations. | | | | | | | | | | | | |
| SHIPPING INFORMATION: TDG regulation – UN 2 | | | | | on – UN 2071, Class | 9.1, Pacl | king Group III | | | | | | |

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| 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. | | | | | |
| 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. 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: Gro | otek Manufacturing Inc. | ADDITIONAL INFORMATION: At the time of preparation, the information and data contained in this | | | | |
| BUSINESS NUMBER: 604-882-7686 | | MSDS are believed to be accurate and have been compiled from | | | | |
| DATE: 03.08.2005 | | sources that are believed to be reliable. | | | | |