

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: Bud Start

PRODUCT USE: Granular Fertilizer **WHMIS CLASSIFICATION:** D2B

MANUFACTURER'S NAME: PlantLife Products **ADDRESS:** 725 Evans Crt Kelowna BC V1X

IN CASE OF EMERGENCY: (250)491-0255

SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS %	CAS #	LD50 OF INGREDIENT (SPECIFY SPECIES & ROUTE)
Monopotassium Phosphate	80-95% 7778-77-0	7950 mg/kg dermal rabbit/7100 mg/kg oral rat NAP

NAP: Not applicable **NAV:** Not available

SECTION 3 -- PHYSICAL DATA

PHYSICAL STATE:

ODOUR & APPEARANCE: NAV, Red powder

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: 4.3 with 5g/litre

SPECIFIC GRAVITY: NAV

COEFF. WATER/OIL DIST. NAV

SOLUBILITY: NAV

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY: NAP

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: Concentrate on combustible products.

FLASHPOINT (°C) AND METHOD: NAP

UPPER FLAMMABLE LIMIT (% BY VOLUME): NAP

LOWER FLAMMABLE LIMIT: (% BY VOLUME): NAP

AUTOIGNITION TEMPERATURE (C) NAP

HAZARDOUS COMBUSTION PRODUCTS: oxides of nitrogen and other metals

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 & bases

CORROSIVE BEHAVIOUR: No Evidence

REACTIVITY AND UNDER WHAT CONDITIONS: NAV

HAZARDOUS DECOMPOSITION PRODUCTS: NAV

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: may cause diarrhea, nausea, vomiting, cramps, & burns to the mouth, throat if large amounts ingested

Inhalation: dust and mist may be irritating to nose, mouth & throat

Eye contact: irritation.
Skin contact: Prolong skin contact may be irritating
EFFECTS OF CHRONIC EXPOSURE: irritation of skin
EXPOSURE LIMITS: NAV
SYNERGISTIC PRODUCTS: NAV
IRRITANCY: NAV
SENSITIZATION: NAV
CARCINOGENICITY: NAV
TERATOGENICITY: Some evidence in rats
REPRODUCTIVE HAZARD: Some evidence in rats
MUTAGENICITY : Some evidence in *E. coli*

SECTION 7 -- PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

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: General mechanical ventilation is adequate, minimize dust generation.

LEAK AND SPILL PROCEDURE: 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.

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

STORAGE REQUIREMENTS: Store in cool, dry area and well ventilated area. Keep container closed.

SPECIAL SHIPPING INFORMATION: TDG regulation --- not regulated for transport 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.

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 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. TOXICOLOGICAL INFORMATION

Most of the chemicals in Bud Start are toxic by ingestion, respiration, or dermal contact.

SECTION 10. ECOLOGICAL INFORMATION

Ecotoxicity: Unknown

Environmental Fate: Not expected to be significant.

Environmental Degradation: Unknown.

SECTION 11. DISPOSAL CONSIDERATIONS

Waste Disposal: Follow Federal, State, and Provincial local regulations.

SECTION 12. TRANSPORTATION INFORMATION

DOT Transportation Data (49 CFR 172.101): Not regulated

SPECIAL SHIPPING INFORMATION: TDG regulation --- not regulated for transport in Canada.

SECTION 13. REGULATORY INFORMATION

EPA Regulations: Not listed

SECTION 14 -- PREPARATION DATE OF MSDS

NAP: Not applicable **NAV:** Not available

PREPARED BY: PlantLife Products

DATE: December 18, 2008

BUS NUMBER: 250-491-0255

ADDITIONAL INFORMATION:

At the time of preparation, the information and data contained in this MSDS are believed to be accurate and have been compiled sources that are believed to be reliable.