

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: Target pH 4

PRODUCT USE: Calibration Solution **WHMIS CLASSIFICATION:** C- Oxidizer, D2B (eye, skin, respiratory and gastrointestinal irritant)

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	<1%	7778-77-0	7950 mg/kg dermal rabbit/7100 mg/kg oral rat NAP
Phosphoric Acid	<1%	7664-38-2	1530 mg/kg oral rat

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE: Liquid

ODOUR AND APPEARANCE: No odour, yellow liquid

ODOUR THRESHOLD (ppm): NAV

VAPOUR PRESSURE (mmHg): NAV

VAPOUR DENSITY (Air=1): NAV

EVAPORATION RATE: NAV

BOILING POINT (°C): >100

FREEZING POINT (°C): <0

pH: 4.0

SPECIFIC GRAVITY: 1.03 g/cm³

COEFF. WATER/OIL DIST. NAV

SOLUBILITY: Soluble in water

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY: Not flammable, however strong oxidizer

IF YES UNDER WHAT CONDITIONS?

MEANS OF EXTINCTION: For fires involving this product, water or fog, avoid using carbon dioxide, foam or dry chemical.

SPECIAL PROCEDURES: Water based product. Treat surrounding fire.

FLASHPOINT (°C) AND METHOD: NAP

UPPER FLAMMABLE LIMIT (% BY VOLUME): NAP

LOWER FLAMMABLE LIMIT (% BY VOLUME): NAP

AUTOIGNITION TEMPERATURE (°C): NAP

HAZARDOUS COMBUSTION PRODUCTS: Nitrogen Oxides, Potassium Oxides, Phosphorus Oxides, Ammonia, Strong bases

EXPLOSION DATA » SENSITIVITY TO IMPACT: NAV

SENSITIVITY TO STATIC DISCHARGE: NAV

SECTION 5 – REACTIVITY DATA

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

INCOMPATIBILITY: Avoid contact with combustibles and acids or bases.

CORROSIVE BEHAVIOUR: Corrosive

REACTIVITY AND UNDER WHAT CONDITIONS: Not applicable

HAZARDOUS DECOMPOSITION PRODUCTS: See hazardous combustion products

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

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 – Large amounts may cause violent gastroenteritis, anemia, vomiting, nausea, diarrhea, vertigo, muscle weakness, irregular pulse, and burns to the mouth and throat if ingested. Ingestion of small amounts may lead to weakness, depression, headaches and metal impairment.

Inhalation – Aerosol and mist may be irritating to nose, mouth and throat

Eye contact – May cause irritation.

Skin contact – May cause irritation.

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

EXPOSURE LIMITS: NAV

SYNERGISTIC PRODUCTS: NAV **IRRITANCY:** Yes **SENSITIZATION:** NAV

CARCINOGENICITY: No evidence

TERATOGENICITY: NAV **REPRODUCTIVE HAZARD:** NAV

MUTAGENICITY: No evidence

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. **Eye:** 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. Use boom socks to contain spill and vacuum to clean up. Small quantities of liquid waste may be flushed to drain.

HANDLING PROCEDURES AND EQUIPMENT: Do not handle unless safety precautions 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. Avoid storage on wood floors, wooden shelves. Separate from combustibles, organic or other readily oxidizable materials, including acids, alkalis, reducing agents. Keep container closed.

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 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. TOXICOLOGICAL INFORMATION

Most of the chemicals in Target pH 4 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 –UN1474 Class 5.1 Oxidizer, Packing Group III, regulated for transport in Canada.

SECTION 13. REGULATORY INFORMATION

EPA Regulations: Not listed

SECTION 14 – PREPARATION DATE OF MSDS

PREPARED BY: PlantLife Products

DATE: February 6, 2006

BUSINESS 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 from sources that are believed to be reliable