

Section 1 – Chemical Product and Company Identification

Product Name: Bluelab pH Up

Other Names: Bluelab pH Up 500ml bottle, Bluelab pH Up 1 Liter or Bluelab pH Up 1 Gallon

Catalog Numbers: PHUP1GBL, PHUP1LBL, PHUP500BL

Product Identity: Potassium Hydroxide, 35%w/w

Chemical Family: Alkali

Synonyms: Not applicable

Recommended Use: Laboratory chemicals

Manufacture details: Manufactured to US specifications and distributed under license for Bluelab Corporation Limited, 8 Whiore Avenue, Tauriko Business Estate, Tauranga 3110, New Zealand.

Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 12/09/2014

Section 2 – Hazard Identification

Emergency Overview: Corrosive. Causes severe burns. May be fatal if ingested. Harmful if inhaled. Wash all areas of contact. If irritation develops get medical attention. If ingested, dilute with water and get medical attention. Do not induce vomiting. Reacts violently with acids.

Appearance: Clear, colorless liquid

Odor: Odorless

Target Organs: Respiratory system, eyes, skin

Potential Health Effects/ Routes of Exposure:

Eyes: May cause irritation and burns, and possible impairment of vision or blindness.

Skin: May cause irritation and burns.

Ingestion: May cause burning of the mouth, stomach, and throat, vomiting, bleeding, fall in blood pressure, corrosion to the mucous membranes, diarrhea and possible perforation of the esophagus and stomach.

Inhalation: May cause a range from mild irritation to severe damage of the upper respiratory tract, depending on exposure.

Chronic Effect / Carcinogenicity: Prolonged or repeated skin contact may cause dermatitis. (IARC, NTP, OSHA)

Aggravated Medical Conditions: No information available.

These chemicals are considered hazardous by OSHA.

Section 3 – Composition, Information on Ingredients

Potassium Hydroxide, CAS# 1310-58-3, 35%w/w

Water, purified, CAS# 7732-18-5, 65% w/w

Section 4 – First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

Skin: Flush with water for 15 minutes. Get medical assistance if irritation develops.

Ingestion: DO NOT induce vomiting. Dilute with water or milk. Get medical assistance.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: Not applicable.

Explosion Limits Upper: No data available.

Extinguishing Media: Any means suitable for extinguishing fire.

Unsuitable Extinguishing Media: No information available.

Autoignition Temperature: No information available.

Lower: No data available.

Section 5 – Fire Fighting Measures - continued

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard. **Fire Fighting Instructions / Equipment:** Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment. **Hazardous Combustion Products:** No information available.

Sensitivity to Mechanical Impact: No information available. **Sensitivity to Static Discharge:** No information available. **Specific Hazards Arising from the Chemical:** No information available.

NFPA Rating: (estimated) Health: 3; Flammable: 0; Reactivity: 1

Section 6 – Accidental Release Measures

Personal Precautions: Use proper personal protective equipment as indicated in Section 8. **Environmental Precautions:** Do not let this chemical enter the environment. **Methods for Containment and Clean Up:** Collect liquid and dilute with water. Neutralize with dilute acid solutions. Decant water to drain with excess water. Absorb with suitable material. Dispose of remaining solid as normal refuse. Always obey local regulations.

Section 7 – Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin and eyes. Do not mix with acids.

Storage: Keep container tightly closed. Store as a corrosive. Protect from freezing and physical damage.

Section 8 – Exposure Controls, Personal Protection

Potassium Hydroxide, CAS# 1310-58-3, ACGIH TLV: C 2mg/m³, OSHA PEL: NA

Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

Engineering Measures/General Hygiene: Use under a chemical fume hood. Ensure eyewash and safety showers are available. **Personal Protection Equipment:** *Skin Protection:* Chemical resistant gloves. *Eye/Face Protection:* Safety Glasses or goggles. *Respiratory Protection:* Chemical fume hood.

Section 9 – Physical and Chemical Properties

Appearance/Physical State: Clear, colorless liquid

Odor: Odorless

Boiling Point: Approx 100 °C

Melting Point: Approx 0 °C

Vapor Density: >1

Evaporation Rate: No information available

pH: Alkaline

Flammability: No information available

Solubility: Soluble in water

Relative Density: No information available

% Volatility: No information available

Specific Gravity: Approx 1

Vapor Pressure: No information available

Flash Point: Not applicable

Coefficient of water/oil distribution: Not available

Odor Threshold: Not available

Decomposition Temperature: No information available

Partition Coefficient n-octanol/water: No data available

Molecular Weight: Not available

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatible Materials: Strong acids, acetone, metals such as aluminum, tin, zinc, and chlorinated hydrocarbons.

Conditions to Avoid: Incompatible materials, excess heat.

Hazardous Decomposition Products: Oxides of potassium, decomposition by reaction with certain metals releases flammable and explosive hydrogen gas.

Hazardous Polymerization: Does not occur.

Hazardous Reactions: Not available.

Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2

LD50 orl-rat: 273 mg/m3 (Potassium Hydroxide) LC50 inhalation-rat: NA

Irritation: No information available.

Toxicologically Synergistic: No Information available.

Chronic Exposure

Carcinogenicity: There are no known carcinogenic chemicals in this product.

Sensitization: No information available.

Mutagenic Effects: No information available.

Reproductive Effects: No information available.

Developmental Effects (Immediate/Delayed): No information available.

Teratogenicity: No information available.

Other Adverse Effects: No information available.

Endocrine Disruptor Information: No information available.

Section 12 – Ecological Information

Ecotoxicity: Not available.

Persistence and Degradability: No information available.

Mobility: No information available.

Bioaccumulation/ Accumulation: No information available.

Section 13 – Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: Neutralize with dilute acid solutions.

All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 – Transport Information

DOT - UN1814, Potassium Hydroxide Solution, 8,

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are considered hazardous by OSHA.

Canada DSL: These chemicals are listed on Canada's DSL list.

TSCA: The components of this solution are listed on the TSCA Inventory.

SARA Title III Section 313: Not Applicable.

RCRA Status: Not Applicable.

CERCLA Reportable Quantity: Potassium Hydroxide – 1000lbs.

WHMIS: Not Applicable.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.