

Section 1 – Chemical Product and Company Identification

Product Name: Bluelab pH Down

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

Catalog Numbers: PHDN1GBL, PHDN1LBL, PHDN500BL

Product Identity: Phosphoric Acid, 35%w/w

Chemical Family: Acid

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: Causes eye, skin, digestive and respiratory tract burns. Corrosive to metal and hygroscopic. May be harmful if swallowed. If ingested, do not induce vomiting. For eyes get medical assistance.

Appearance: Clear, colorless liquid **Odor:** Odorless **Target Organs:** mucous membrane, eyes, skin.

Potential Health Effects/ Routes of Exposure:

Eyes: May cause severe irritation, tearing, redness, pain and burns.

Skin: May cause irritation, redness, and pain.

Ingestion: May cause burns of the mouth, throat, and stomach, abdominal pain, vomiting, nausea, gastrointestinal upset.

Inhalation: May cause respiratory tract irritation and severe burns.

Chronic Effect / Carcinogenicity: None (IARC, NTP, OSHA).

Aggravated Medical Conditions: No information available.

These chemicals are considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Phosphoric Acid, CAS# 7664-38-2, 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.

Autoignition Temperature: No information available.

Explosion Limits Upper: No data available.

Lower: No data available.

Extinguishing Media: Use means suitable to extinguishing surrounding fire.

Unsuitable Extinguishing Media: No information available.

Section 5 – Fire Fighting Measures - continued

Fire & Explosion Hazards: Contact with metal may form flammable hydrogen gas. **Fire Fighting Instructions / Equipment:** Use normal procedures. Poisonous gas may be produced in fire. 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: 2; Flammable: 0; Reactivity: 0

Section 6 – Accidental Release Measures

Personal Precautions: Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. **Environmental Precautions:** Should not be released into the environment. **Methods for Containment and Clean Up:** Soak up with inert absorbent material. Keep in suitable and closed containers for disposal.

Section 7 – Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin and eyes.

Storage: Protect from freezing and physical damage.

Section 8 – Exposure Controls, Personal Protection

Phosphoric Acid, CAS# 7664-38-2, ACGIH TLV: 1 mg/m³, OSHA PEL: 1 mg/m³

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

Engineering Measures/General Hygiene: Normal ventilation is adequate. Ensure eyewash and safety showers are available. **Personal Protection Equipment:** *Skin Protection:* Chemical resistant gloves. *Eye/Face Protection:* Safety Glasses or goggles. *Respiratory Protection:* Normal ventilation is adequate.

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: Not available

Flammability: No information available

Solubility: Infinite

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: Metals, strong bases, amines, alcohols, aldehydes.

Conditions to Avoid: No information available.

Hazardous Decomposition Products: Oxides of phosphorus, reactions with certain metals may release explosive and flammable hydrogen gases.

Hazardous Polymerization: Does not occur.

Hazardous Reactions: Not available.

Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2

LD50 orl-rat: 1530 mg/m3 (Phosphoric Acid)

LC50 inhalation-rat: NA

Irritation: No information available.

Toxicologically Synergistic: No Information available.

Chronic Exposure

Carcinogenicity: No information available.

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: Cover spill with soda ash or calcium carbonate. Mix and add water to form slurry. Decant to drain. Treat the solid residue as normal refuse. 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 - UN1805, Phosphoric Acid Solution, 8, III

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: Not Applicable.

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.