

1. Version History

Version	Date	History
1-21102016	21 st October 2016	Initial release
2-21022019	21 st February 2019	Review

2. Product and Company Identification

Product Name	pH Up
Recommended Uses	Use only as directed on the label.
Company	Bluelab Corporation Limited
Street Address	8 Whiore Avenue Tauriko Business Estate Tauranga 3110 New Zealand
Telephone	0064 7 578 0849
Emergency Contact numbers	National Poisons Centre Urgent 0800 764 766 (0800 POISON) Other countries 0064 3 764766 Non Urgent 0064 3 479 7248 New Zealand Fire Service– 111

3. Hazards Identification

New Zealand HSNO Classifications

6.1D	Acutely toxic (Oral)
8.1A	Corrosive to metals
8.2B	Corrosive to dermal tissue
8.3A	Corrosive to ocular tissue
9.3B	Eco-toxic to terrestrial vertebrates

GHS Classifications

Signal word: **Danger**
Corrosive to metals, category 1
Serious eye damage, category 1
Skin corrosion, category 1A

Hazard Symbols



Hazard statements:

May be corrosive to metals.
Causes severe skin burns and eye damage.

Precautionary statements:

If medical advice is needed have product container or label at hand.
Keep out of reach of children.
Read label before use.
Keep only in original container.

Wash skin thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Do not breathe dust/fume/gas/mist/vapours/spray.
 Absorb spillage to prevent material damage.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 Wash contaminated clothing before reuse.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Immediately call a POISON CENTER or doctor/physician.
 Specific treatment (see supplemental first aid instructions on this label).
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.
 Continue rinsing.
 Store locked up.
 Dispose of contents and container as instructed in Section 13.

4. Composition/Information on Ingredients

Chemical Name	CAS no.	Weight %
Deionized Water	7732-18-5	65
Potassium Hydroxide	1310-58-3	35

5. First Aid

Inhalation Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Loosen clothing and place exposed in a comfortable position. Seek medical assistance if cough or other symptoms appear.

Skin Contact Wash hands and exposed skin with soap and plenty of water. Immediately seek medical attention.

Eye contact Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses if possible, and continue rinsing. Immediately seek medical attention.

Ingestion Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.
 Immediately seek medical attention.

Treatment Acute and delayed symptoms:
 Irritation. Shortness of breath. Headache. Nausea. Dizziness.

 Physician should treat symptomatically.

6. Fire-fighting Measures

Flammability Not determined

Extinguishing Media Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

Extinguishing Media to Avoid None

Hazardous Combustion Products Thermal decomposition can lead to release of irritating gases and vapours.

Fire Fighting Procedures Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard.
 Prevent contamination of drains or waterways.

Fire-fighting equipment	Wear protective eye-ware, gloves, and clothing. Refer to Section 8. Avoid inhaling gases, fumes, dust, mist, vapour, and aerosols. Avoid contact with skin, eyes, and clothing.
HAZCHEM	Not Specified

7. Accidental Release Measures

Personal precautions	Ensure adequate ventilation. Ensure that air-handling systems are operational.
Environmental precautions	Should not be released into environment. Prevent from reaching drains, sewer, or waterway.
Clean-up Methods	Wear protective eye-ware, gloves, and clothing. Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable closed containers for disposal. Refer to Section 8.

8. Handling and Storage

Handling	Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Do not eat, drink, smoke, or use personal products when handling chemical substances. Refer to Section 13.
Storage	Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

9. Exposure Controls / Personal Protection

Workplace Exposure Standards	1310-58-3, Potassium Hydroxide, C 2 mg/m ³ USA. ACGIH. 1310-58-3, Potassium Hydroxide, C 2 mg/m ³ USA. OSHA. 1310-58-3, Potassium Hydroxide, C 2 mg/m ³ USA. NIOSH.
Engineering controls	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.
Personal Protection	Respiratory - Not required under normal conditions of use. Hand - Select glove material impermeable and resistant to the substance. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Skin - Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Eye - Wear safety glasses or goggles. General Hygiene - Perform routine housekeeping. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing. Before re-wearing wash contaminated clothing.

10. Physical and Chemical Properties

Appearance	Clear Liquid
Colour	Colourless

Odour	Odourless
pH (5% Solution in Water)	Alkaline
Vapour pressure	Not determined
Vapour density	>1
Boiling Point	100°C (Approximately)
Melting/Freezing Point	0°C (Approximately)
Solubility (water)	Soluble
Specific Gravity/Density	Not determined
Flash Point	Not determined
Flammable Limits	Not determined
Auto-ignition	Not determined

11. Stability and Reactivity

Chemical Stability	Stable under normal conditions.
Conditions to avoid	Excessive heat
Materials to avoid	Strong acids, acetone, metals such as aluminium, tin, zinc, and chlorinated hydrocarbons.
Hazardous Decomposition Products	Oxides of potassium, decomposition by reaction with certain metals releases flammable and explosive hydrogen gas

12. Toxicological Information

Acute Toxicity:

6.1D Oral - Species: Rat. Endpoint: LD50. Value: 273 mg/kg
Reference Source: New Zealand Environmental Protection Authority

Chronic Toxicity: No additional information.

Skin corrosion/irritation:

8.2B Skin - Rabbit Result: Severe skin irritation - 24 h 1310-58-3.

8.3A Eyes - Rabbit Result: Corrosive to eyes 1310-58-3

Serious eye damage/irritation: No additional information.

Respiratory or skin sensitization: No additional information.

Carcinogenicity: No additional information.

Germ cell mutagenicity: No additional information.

Reproductive Toxicity: No additional information.

STOT-single and repeated exposure: No additional information.

Additional toxicological information: No additional information.

13. Ecological Information

Ecotoxicity:

Ecotoxic to terrestrial vertebrates (HSNO 9.3B)

Species: Rat. Endpoint: LD50 value: 273 mg/kg

Reference source: New Zealand Environmental Protection Authority

Persistence and degradability: No additional information.

Bioaccumulative potential: No additional information.

Mobility in soil: No additional information.

Other adverse effects: No additional information.

Marine Pollutant: Yes. 1310-58-3, LC50 - *Gambusia affinis* (Mosquito fish) - 80 mg/l - 96 h.

14. Disposal Considerations

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations.

For unused and uncontaminated product, contact a licensed professional waste disposal service.
Dispose of empty containers as unused product.
Product or containers must not be disposed together with household garbage.

15. Transport Information

Road, Rail, Sea and Air Transport - ADR, ADN, DOT, IMDG, IATA

UN Number	UN1814
Proper Shipping name	Potassium Hydroxide Solution
DG Class	8
Packing Group	III
HAZCHEM code	None Allocated
IMO/IMDG class	8
ICAO/IATA class	8
EMS code	None Allocated
Marine pollutant	Yes

16. Regulatory Information

New Zealand:

Hazardous Substances and New Organisms (HSNO) Act 1996: Registered
Approval Number: HSR001574

Other Countries:

Australian Inventory of Chemical Substances (AICS): Substance is listed.

USA: Registered.

OSHA IMIS Code Number: 2140.

NIOSH Registry of Toxic Effects of Chemical Substances (RTECS) Identification Number: TT2100000

Department of Transportation Regulation: 1814 154

European Chemicals Agency: Substance is listed as dangerous

17. Other Information

SDS Date of preparation 21st October 2016

SDS Review 21st February 2019

*The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed **only** as guide and is not to be considered a guarantee of safety. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in text.*