


NFPA	GHS Pictogram	Personal Protective Equipment
		

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	Product form	Product code
pH Boost™	Mixture	pH-B

1.2. **Relevant identified uses of the substance or mixture and uses advised against:** Alkaline pH adjustment fluid.

1.3. Details of the supplier of the safety data sheet

Rhomar HTF LLC, dba Rhomar Water
 2103 E. Rockhurst St., Springfield, MO 65802 USA
 T 417-862-2600; F 417-862-6410
 Email: TalkToUs@rhomarwater.com

1.4. **Emergency telephone number**
CHEM TEL: 1-800-255-3924

SECTION 2: HAZARDS IDENTIFICATION

GHS Pictogram:



Signal Word: **Warning**

Hazard Statement:

- H315:** Causes skin irritation (*Skin corrosion/irritation: Category 2*).
- H319:** Causes serious eye irritation (*Serious eye damage/eye irritation: Category 2A*).
- H303:** May be harmful if swallowed (*Acute Toxicity/Oral: Category 5*).
- H290:** May be corrosive to metals (*Corrosive to metals: Category 1*)

Precautionary Statements:

- P264:** Wash hands thoroughly after handling.
- P280:** Wear protective gloves/clothing, eye/face protection.
- P273:** Avoid release to the environment.
- P390:** Absorb spillage to prevent material damage.
- P305 + P351 + P338 + P337 + P313:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.
- P302 + P352 + P361 + P363 + P333 + P313:** IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing, wash before reuse. If skin irritation occurs: Get medical advice/attention
- P301 + P330 + P331 + P312:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell.
- P406 + P233:** Store in corrosive resistant container with a resistant inner liner. Keep the container tightly closed
- P102:** Keep out of reach of children.
- P501:** Dispose of contents/container in accordance with applicable federal, state and local laws.

Reference: GHS Purple Book-Annex 3

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
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Substance	Common Name/Synonym	CAS #	Amount, %
Potassium hydroxide	Caustic potash	1310-58-3	1.5 – 3.5
FD & C Green Dye	Food color	-	~0.01
Demineralized water	N/A	7732-18-5	Balance

SECTION 4: FIRST AID MEASURES

4.1. **Description of first aid measures**

Eye contact : Immediately flush thoroughly with plenty of water while lifting the lower and upper eyelids occasionally. Seek medical attention.

Skin contact : Wash off with soap and plenty of water while removing contaminated clothes and shoes. Rinse thoroughly with water. Seek medical attention. Wash contaminated clothing before reuse.

Inhalation : Move to fresh air. If breathing is difficult, immediately seek medical attention

Ingestion : Wash mouth with water. If person is conscious, give them 2 – 4 cups of drinking water. DO NOT INDUCE VOMITING. Get immediate medical attention. Do not give anything by mouth to an unconscious person.

General advice: If there exists a significant potential for exposure, refer to **Section 8** for personal protective equipment. Acute overexposure to pH Boost™ causes irritation of the skin and eyes. Its ingestion may cause gastrointestinal irritation.

4.2. **Indication of any immediate medical attention and special treatment needed:** None

Note to Physician: Contains potassium, hydroxide. Treat as symptoms may be.

SECTION 5: FIREFIGHTING MEASURES

NFPA

Flammability 0
Health 1



Stability and reactivity 0
Physical hazard ALK

5.1. **Suitable extinguishing media:** Non-combustible. Use extinguishing media appropriate for the surrounding fire.

5.2. **Unsuitable extinguishing media:** Not flammable.

5.3. **Special hazards arising from the substance or mixture:** None known

5.4. **Advise for firefighters:** Wear self-contained breathing apparatus (SCBA) which are NIOSH/MSHA (approved or equivalent) and full protective gear for firefighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. **Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation. Avoid breathing vapors or mist. Use safety glasses and impervious gloves as a minimum for personal protection. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION for more information.

6.2. **Environmental precautions:** Product falls under corrosives chemicals. Do not let large spills of the product enter drains. Small spills may however be diluted with water and allowed to evacuate through the sanitary system.

6.3. **Methods and material for containment and cleaning:** Dam up the area of accidental release to contain large spills. Mechanically collect spillage in suitable containers for disposal. For small spills, adsorb with inert adsorbent material. Dispose material in accordance with federal, state and local regulations.

SECTION 7: HANDLING AND STORAGE

- 7.1. **Precautions for safe handling:** Observe standard industrial hygiene practices. Proper personal protective equipment required while handling this product. Avoid contact with the eyes and skin. Avoid breathing mists or vapors. See Section 8, EXPOSURE CONTROLS/PERSONAL PROTECTION.
- 7.2. **Conditions for safe storage, including any incompatibilities:** Store in original container. Keep storage container tightly closed in a well-ventilated place. Avoid storing pH Boost™ with strong acids, strong oxidizers, and organic materials. See Section 10, STABILITY AND REACTIVITY for more specific information.
- 7.3. **Specific end use(s):** Apart from the uses mentioned in Section 1.2, no other specific uses are prescribed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	Type of listing	Regulation	Value
Potassium hydroxide	USA ACGIH	ACGIH Ceiling	2 mg/m ³

- 8.1. **Exposure controls**
- Eye/face protection** : Wear dust and splash proof goggles or safety glasses with side shields.
- Skin/body protection** : Use gloves chemically resistant to this product such as those made from butyl or nitrile rubber when prolonged contact with material could occur. Wear impervious clothing.
- Respiratory protection** : Wear suitable personal respiratory protection and protective suit in case of mist, aerosol or spray exposure.
- 8.2. **Engineering controls** : Adequate ventilation should be ensured. Safety shower and eyewash station should be located in the immediate work place.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Liquid	Specific Gravity (H ₂ O=1), g/mL	1.015
Appearance	Clear, green	Evaporation Rate (H ₂ O = 1)	1.0
Odor	Slight odor	Odor threshold	No data available
pH (as is)	>13	Vapor Pressure	No data available
pH of a 1% solution	Not established	Vapor Density (Air = 1)	No data available
Boiling Point (760 mmHg)	>100°C (>212°F)	Relative density (Air = 1)	No data available
Freezing Point	No data available	Partition Coefficient	No data available
Decomposition temperature	No data available	Water Solubility	Complete
Oxidizing properties	No data available	Flammability Limits (solid, gas)	Not applicable to liquids
Flammability/explosive limit	No data available	Autoignition Temperature	No test data available
Viscosity	No data available	Flash Point	No data available

- 9.2. **Other information** : None available

SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity** : No data available
- 10.2. **Chemical stability** : Stable under recommended storage and handling conditions
- 10.3. **Possibility of hazardous reactions:** Polymerization will not occur
- 10.4. **Conditions to avoid** : Exposing this product to elevated temperatures can cause it to decompose generating gases which can cause pressure buildup in closed systems.
- 10.5. **Incompatible materials** : Avoid contact with strong oxidizers and strong acids
- 10.6. **Hazardous decomposition products:** None

SECTION 11: TOXICOLOGICAL INFORMATION
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Information on toxicological effects:**Acute toxicity:**

Chemical name	Exposure route	Test specimen	Lethal Dose (LD ₅₀)	Reference
Potassium hydroxide	Oral	Rat	333 mg/Kg	Literature
pH Boost™	Skin, eye, respiratory	No test data available		

Chronic effects:**Short-term exposure:** No data available**Long-term exposure:** No data available**Symptoms associated with exposure:** Redness, itching, burning (from least to the most severe)**Carcinogenicity** : No ingredient of this product in levels $\geq 0.1\%$ is identified and listed by OSHA, ACGIH, NTP, IARC or Mexico as a known or suspected carcinogen**Mutagenic, reproductive, developmental, target organ or neurological effects:** No information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. **Aquatic toxicity**

Chemical Name	Description of ecological effect
pH Boost™	No data available
Potassium hydroxide (1310-58-3)	LC ₅₀ = 179 mg/L (96 hour; Fresh water fish, fathead minnow)

- 12.2. **Persistence and degradability:** No data available
- 12.3. **Bioaccumulative potential** : No data available
- 12.4. **Mobility in soil** : Mobility potential of product is likely to be high due to its 100 % miscibility in water
- 12.5. **Other adverse effects** : None known

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 **Unused/uncontaminated product** : Contact a licensed: Recycler. Reclaimer. Incinerator.
- 13.2 **Waste disposal methods:** Whenever possible, minimize waste. Waste should be disposed of in accordance with all laws and regulations pertaining to this product in your area of jurisdiction.
- 13.3 **Contaminated packaging:** Decontaminate empty containers. Treat decontamination fluid as waste and dispose as above. You may take the containers for local recycling.
- 13.4 **Physical properties that may affect disposal activities:** pH Boost™ doesn't meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity and none of its ingredients are listed in 40 CFR 261.33
- 13.5 **Chemical properties that may affect disposal activities:** Toxicity Characteristic Leaching Procedures (TCLP) has not been performed on pH Boost™.

NOTE: All disposal practices must be in compliance with all federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are solely the responsibility of the waste generator.

SECTION 14: TRANSPORT INFORMATION

Domestic Transport regulations : DOT (USA) and TDG (Canada) – UN Number: 1814; Hazard Class: 8; Packing group: III; Proper shipping name: potassium hydroxide solution; Reportable Quantity – 5,000 lbs. Poison Inhalation hazard: No; Marine Pollutant: No.

International Transport regulations: The international regulation on the transport of dangerous goods (IATA/ICAO) – UN Number: 1814; Hazard Class: 8; Packing group: III; Proper shipping name: potassium hydroxide solution.

NOTE: This information is not intended to convey all specific regulatory or operational requirements relating to the transportation of this product. Additional transportation information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of this material.

SECTION 15: REGULATORY INFORMATION**US Federal regulations**

SARA 313: This product does not contain any components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312: Acute health hazard: No
Chronic health hazard: No

SARA 302: This product is not known to contain any chemical components subject to the reporting requirements of SARA Title III, Sections 302 or regulations contained in 40 CFR 302.

15.2. US State regulations:

Pennsylvania Worker and Community-Right-To-Know Act (Act 159 of 1984): Potassium hydroxide (CAS RN 1310-58-3) is listed to meet the additional requirements of the Pennsylvania State Law

Proposition 65: This product does not contain chemicals listed in the State of California as carcinogens, reproductive toxins at levels requiring a warning under this statute

15.3. Worldwide Chemical Inventory Status :

All the ingredients in this product are listed in USA's TCSA, and Canada's DSL inventories

SECTION 16: OTHER INFORMATION

Prepared by	Preparation date	Revision date	Revision number
Rhomar HTF LLC, dba Rhomar Water	06/04/2014	02/10/2017	4

LEGEND:

CAS : Chemical Abstracts Service	CFR : Code of Federal Regulations
TWA : Time Weighted Average	DOT : Department of Transport
IMDG : International Maritime Dangerous Goods	IATA : International Air Transport Association
WEEL : Workplace Environmental Exposure Limit	TDG : Transport of Dangerous Goods
NTP : National Toxicity Program	DSL : Domestic Substances List
SARA : Superfund Amendments and Reauthorization Act	OHSA : Occupational Health and Safety Act
OSHA : Occupational Safety and Health Administration	TCSA : Toxic Substances Control Act
IARC : International Agency for Research on Cancer	MSHA : Mine Safety and Health Administration
NIOSH : National Institute for Occupational Safety and Health	ADR & RID : European Agreements Concerning International Carriage of Dangerous Goods by Rail and by Road
ACGIH : American Conference of Government Industrial Hygienists	

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