



BWT-196

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: BWT-196
Common Name: Potassium Hydroxide
SDS Number: 0196
Revision Date: 5/17/2016
Product Use: Water Treatment Compound
Supplier Details: Alliance Group, Inc. 800-648-7339
N114 W18621 Clinton Drive
Germantown, WI 53022

Contact: CHEMTEL
Phone: 1-800-255-3924

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 1 A
Health, Acute toxicity, 5 Oral
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Acute toxicity, 5 Inhalation

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:



GHS Hazard Statements:

H314 - Causes severe skin burns and eye damage
H303 - May be harmful if swallowed
H319 - Causes serious eye irritation
H333 - May be harmful if inhaled

GHS Precautionary Statements:

P264 - Wash skin thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+352 - IF ON SKIN: Wash with soap and water.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P332+313 - If skin irritation occurs: Get medical advice/attention.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry: Eyes; Inhalation; Ingestion; Skin.
Target Organs: Respiratory system; Eyes; Skin.
Inhalation: Can cause severe irritation and inflammation of the respiratory tract.
Skin Contact: May cause irritation, tearing and redness.
Eye Contact: May cause irritation. May cause permanent eye damage.

Ingredients:

Substance/Mixture: Mixture

Cas#	%	Chemical Name
1310-58-3	<10%	Potassium hydroxide, solution
7758-29-4		Triphosphoric acid, pentasodium salt
7681-57-4		Sodium metabisulfite

FIRST AID MEASURES

Inhalation:	If symptoms develop, move victim to fresh air. Give oxygen or artificial respiration if needed. GET IMMEDIATE MEDICAL ATTENTION.
Skin Contact:	Promptly flush skin with water for 15 minutes. Remove contaminated clothing immediately. Get immediate medical attention. Do not reuse clothing and shoes until cleaned. Discard leather articles such as shoes and belt. Do not apply oils and ointments unless ordered by a physician.
Eye Contact:	Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Get immediate medical attention.
Ingestion:	If swallowed: If fully conscious, drink a quart of water . Do NOT induce vomiting. Seek immediate medical attention. If unconscious, take to a hospital or physician. Never induce vomiting or give anything by mouth to an unconscious victim. For spontaneous vomiting, keep head below hips.

FIRE FIGHTING MEASURES

Flammability:	No data available.
Flash Point:	No data available.
Flash Point Method:	No data available.
Burning Rate:	No data available.
Autoignition Temp:	No data available.
LEL:	No data available.
UEL:	No data available.

Fire Fighting Methods

Evacuate area of unprotected personal. Wear protective clothing including NIOSH Approved self- contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire exposed containers and disperse vapors.

Unusual Fire or Explosion Hazards:

Product may react with some metals (aluminum, zinc, and tin) to release flammable hydrogen gas.

Extinguishing Media

Suitable: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable fire extinguisher: No data available

ACCIDENTAL RELEASE MEASURES

Personal Precautions

Evacuate area. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let products enter drains. Discharge into the environment must be avoided.

Spill

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Handling Precautions:	Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or mist. Wash thoroughly after handling. Do not puncture or drop containers. Do not expose containers to open flame, excessive heat, or direct sunlight. Add product to water slowly while stirring. If product is added rapidly or without stirring and becomes concentrated at the bottom of the mixing vessel.
Storage Requirements:	CORROSIVE MATERIAL. Store in cool/dry area. Keep away from sunlight, heat, sparks, and flames. Keep away from incompatible materials. Keep container tightly closed. Do not store in unlabeled or mislabeled containers. Do not freeze. Highly corrosive to most metals with evolution of hydrogen gas. Explosive/flammable concentration of hydrogen gas may accumulate inside metals containers. Elevated temperatures will increase the corrosion rate of most metals.

Engineering Controls:	Provide local exhaust ventilation. Maintain adequate ventilation.
Personal Protective Equipment:	<p>Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.</p> <p>Respiratory Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.</p> <p>Eyes and Face Wear chemical safety goggles while handling this product. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing or spraying liquid or airborne material.</p> <p>Skin Prevent contact with this product. Wear gloves and protective clothing depending on conditions of use. Protective gloves: gauntlet-type, neoprene, nitrile.</p>

Component	OSHA PEL	ACGIH TWA/ TLV
Potassium Hydroxide	2 mg/m ³	2 mg/m ³

Appearance:	Clear, water white.	Odor:	Slight odor.
Physical State:	Liquid	Molecular Formula:	No data available.
Odor Threshold:	No data available.	Solubility:	Dispersible
Particle Size:	No data available.	Softening Point:	No data available.
Spec Grav./Density:	1.22	Percent Volatile:	None
Viscosity:	No data available.	Heat Value:	No data available.
Sat. Vap. Conc.:	No data available.	Freezing/Melting Pt.:	32 F
Boiling Point:	212-275 F	Flash Point:	No data available.
Flammability:	No data available.	Octanol:	No data available.
Partition Coefficient:	No data available.	Vapor Density:	No data available.
Vapor Pressure:	No data available.	VOC:	No data available.
pH:	>12.0	Bulk Density:	No data available.
Evap. Rate:	No data available.	Auto-Ignition Temp:	No data available.
Molecular weight:	No data available.	UFL/LFL:	No data available.
Decomp Temp:	No data available.		
Lower Explosion Limits: No data available.			
Upper Explosion Limits: No data available.			

Reactivity:	No data available.
Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Avoid moisture. Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames. Contact with organic material may cause fire and explosions. Contact with water may cause violent reaction with evolution of heat. To dilute: Add products slowly to lukewarm water, not water to product.
Materials to Avoid:	Metals. Water. Alkalies. Strong Oxidizing Agents. Reducing agents. Carbonates. Cyanides. Sulfides. Carbides. Chlorates. Fulminates. Nitrates. Powdered metals. Organic materials. Combustible materials. Nitrogen compounds. Picrates. Bases. Halogens. Leather. Wool. Phosphorus pentoxide. Halogenated compounds. Glycols. Explosives. Acrylonitrile. 1,2-Dichloroethylene. Tetrachloroethane. Organic peroxides. Sodium tetrahydroborate. Food sugars. Alkali metals, and many other reactive substances.
Hazardous Decomposition:	Hydrogen gas. Carbon monoxide. Flammable dichloroacetylene. Phosphine. Thermal decomposition may release: Sodium oxide.
Hazardous Polymerization:	Will not occur under normal conditions. May react with certain metals to produce flammable hydrogen gas.

Toxicity Data:

Component	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Hydroxide	Rat LD50: 333 mg/kg	No data available.	No data available.
Triphosphoric acid, pentasodium	Rat LD50: 3900 mg/kg	Rabbit LD50: 4640 mg/kg	No data available.

Skin corrosion/irritation: Skin - rabbit Result: Severe skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit Result: Corrosive to eyes (OECD Test Guideline 405)

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Potassium hydroxide, solution (1310-58-3) [<10%]

Information on ecological effects

Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) - 80 mg/l - 96 h.

Persistence and degradability: The methods for determining the biological degradability are not applicable to inorganic substances.

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. DO NOT pressurize, cut, weld, solder, drill, grind, or expose empty containers to heat, flame, sparks or other sources of ignition.

14 TRANSPORT INFORMATION

UN3266, Corrosive liquid, basic, inorganic, n.o.s., 8, PGII, (Potassium Hydroxide)

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15 REGULATORY INFORMATION

FEDERAL REGULATIONS

TSCA Inventory Status: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA Title III Section 311/312 Category:
Immediate(Acute) Health Hazard: YES
Delayed (Chronic) Health Hazard:NO
Fire Hazard: NO
Sudden Release of Pressure Hazard:NO
Reactive Hazard: NO

SARA Section 302/304/313/HAP:

Component	CERCLA RQ (LBS)	SARA RQ(LBS)	SARA TPQ(LBS)	SARA SEC 313	US EPA HAP
Potassium Hydroxide	No data available.	No data available.	No data available.	NO	NO

STATE REGULATIONS

California- The following components are listed under Prop 65:
Arsenic, Lead, Nickel, Mercury

Wisconsin- The following components are listed as a Wisconsin HAP: Potassium Hydroxide

16 OTHER INFORMATION

HMIS III: Health = 2(Chronic), Fire = 0, Physical Hazard = 0

HMIS		
HEALTH	<input checked="" type="checkbox"/>	2
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION	<input type="checkbox"/>	

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Prepared By: T Hartmann

Reason for Revision: GHS Format

This information is given in good faith and based on our current knowledge of the product.

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