Printing date 05/14/2024

Reviewed on 05/14/2024

Identification		
Product identifier		
Trade name: <u>Potassium</u>		
<u>in Benzyl A</u>		
Article number: HUN007	7	
Details of the supplier of Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586	the safety data sheet	AQUA SOLUTIONS
Information department: Technical Coordinator Sherman Nelson sherman Emergency telephone nu. Chemtrec: 800-424-9300 Canutec: 613-996-6666	n@aquasolutions.org	
Hazard(s) identificat		
Classification of the subs	tance or mixture	
GHS05 Corros	ion	
Skin Corrosion 1B	H314 Causes severe skin burns and	l eye damage.
Eye Damage 1	H318 Causes serious eye damage.	
\wedge		
GHS07		
\mathbf{V}	H302 Harmful if swallowed.	
Acute Toxicity - Oral 4	H302 Harmful if swallowed. n 4 H332 Harmful if inhaled.	
Acute Toxicity - Oral 4 Acute Toxicity - Inhalatio Label elements	n 4 H332 Harmful if inhaled.	ling to the Globally Harmonized System (GHS)
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Trade name: Potassium Hydroxide 0.5N in Benzyl Alcohol

(Contd. of page 1) Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 3Fire = 1Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 3 Health = 3FIRE Fire = 11 **REACTIVITY O** Reactivity = 0· Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable. **3** Composition/information on ingredients

- · Chemical characterization: Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 100-51-6	Benzyl alcohol	97.337%
CAS: 1310-58-3	Potassium Hydroxide	2.663%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

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• After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

• Information for doctor:

- Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- \cdot Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.

· Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

Mount respiratory protective device.	
Wear protective equipment. Keep unprotected persons away.	
Environmental precautions: Do not allow to enter sewers/ surface or ground	id water.
Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universa	ul binders, sawdust).
Use neutralizing agent.	
Dispose contaminated material as waste according to section 13.	
Ensure adequate ventilation.	
Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
Protective Action Criteria for Chemicals	
PAC-1:	
CAS: 100-51-6 Benzyl alcohol	30 ppm
	0.18 mg/m
CAS: 1310-58-3 Potassium Hydroxide	0.10 mg/m
	0.10 mg/m
PAC-2: CAS: 100-51-6 Benzyl alcohol	52 ppm
PAC-2:CAS: 100-51-6Benzyl alcoholCAS: 1310-58-3Potassium Hydroxide	52 ppm
PAC-2:	52 ppm 2 mg/m 740 ppm

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7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters

· Components with limit values that require monitoring at the workplace:

CAS: 100-51-6 Benzyl alcohol

WEEL Long-term value: 10 ppm

CAS: 1310-58-3 Potassium Hydroxide

REL Ceiling limit value: 2 mg/m³

TLV Ceiling limit value: 2 mg/m³

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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• Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

General InformationAppearance:Form:LiquidColor:YellowOdar:OrganicOdar:OrganicOdor threshold:Not determined.PH-value:Not determined.Ph-value:Not determined.Change in conditionUndetermined.Melting point/Boiling range:Undetermined.Boiling point/Boiling range:Undetermined.Flash point:101 °C (213.8 °F)Flammability (solid, gaseous):Not applicable.Auto igniting:435 °C (815 °F)Decomposition temperature:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits:List Nol %Upper:1.3 Vol %Upper:1.3 Vol %Upper:1.3 Vol %Upper:0.13 hPa (0.1 mm Hg)Density at 20 °C (68 °F):0.13 hPa (0.2 mm Hg)Density at 20 °C (68 °F):Not determined.Vapor pressure at 50 °C (122 °F):Not determined.Vapor densityNot determined.Vapor densityNot determined.Vapor densityNot determined.Solubility in / Miscibility with Water at 20 °C (68 °F):39 g/lPartition coefficient (n-octanol/water): Not determined.Viscosity:39 g/l	Information on basic physical and c	hemical properties	
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	Partition coefficient (n-octanol/wate	r): Not determined.	
Dynamic: Not determined.	Viscosity: Dynamic:		

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Trade name: Potassium Hydroxide 0.5N in Benzyl Alcohol

		(Contd. of page 5)
Kinematic:	Not determined.	
• Solvent content: Organic solvents: VOC content:	97.3 % 97.34 % 1,025.7 g/l / 8.56 lb/gal	
Solids content:	2.7 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

• *Reactivity* No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 500 mg/kg

Inhalative LC50/4h 11.3 mg/l

· Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

- \cdot on the eye:
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

• Sensitization: No sensitizing effects known.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

- Corrosive
- Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number DOT, IMDG, IATA	UN1760
UN proper shipping name	
DOT	Corrosive liquids, n.o.s. (Potassium Hydroxide)
IMDG, IATA	CORROSIVE LIQUID, N.O.S. (Potassium Hydroxide)
Transport hazard class(es) DOT	
CORROSIVE 8	
Class	8 Corrosive substances

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	(Contd. of page
· Label	8
· IMDG, IATA	
· Class · Label	8 Corrosive substances 8
	8
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Corrosive substances
· Hazard identification number (Kemler code).	
· EMS Number:	F-A,S-B
· Segregation groups	(SGG18) Alkalis
· Stowage Category	В
· Stowage Code	SW2 Clear of living quarters.
• Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
·DOT	
• Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 30 L
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (POTASSIUN
č	HYDROXIDE), 8, II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
Benzyl alcohol	ACTIVE
Potassium Hydroxide	ACTIVE
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· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

 \cdot Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

• Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

· Hazard-determining components of labeling: Benzyl alcohol Potassium Hydroxide · Hazard statements Harmful if swallowed or if inhaled. *Causes severe skin burns and eye damage.* · Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label).

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Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Department issuing SDS: Environment protection department.

· Contact:

Date of Preparation / Last Revision: · Date of preparation / last revision Revision 1.2, 05/14/2024: Reviewed SDS for accuracy. MH/STN 05/14/2024 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Toxicity - Oral 4: Acute toxicity - Category 4 Skin Corrosion 1B: Skin corrosion/irritation - Category 1B

Eye Damage 1: Serious eye damage/eye irritation – Category 1 • * Data compared to the previous version altered.

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