Printing date 06/19/2024 Reviewed on 06/19/2024

### 1 Identification

· Product identifier

· Trade name: Sodium Hydroxide 0.4 Normal NIST Traceable Solution

· Article number: 8640

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586

· Information department:

Technical Coordinator

Sherman Nelson shermann@aquasolutions.org

Technical Coordinator

Sherman Nelson shermann@aquasolutions.org

· Emergency telephone number: Chemtrec: 800-424-9300

Canutec: 613-996-6666



### 2 Hazard(s) identification

· Classification of the substance or mixture



GHS05 Corrosion

Skin Corrosion 1A H314 Causes severe skin burns and eye damage.

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



GHS05

- · Signal word Danger
- · Hazard statements

Causes severe skin burns and eye damage.

· Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Wear protective gloves.

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.

(Contd. on page 2)

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(Contd. of page 1)

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 3Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 3Fire = 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: 1310-73-2 Sodium Hydroxide

1.587%

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

98.414%

## 4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · 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: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 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.
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

(Contd. on page 3)

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Trade name: Sodium Hydroxide 0.4 Normal NIST Traceable Solution

(Contd. of page 2)

- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- · Environmental precautions: Dilute with plenty of water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal 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

Troccure Action Critician for Chemicals	
· PAC-1:	
CAS: 1310-73-2 Sodium Hydroxide	$0.5 \text{ mg/m}^3$
· PAC-2:	
CAS: 1310-73-2 Sodium Hydroxide	5 mg/m <sup>3</sup>
· PAC-3:	
CAS: 1310-73-2 Sodium Hydroxide	50 mg/m <sup>3</sup>

## 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.

(Contd. on page 4)

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Trade name: Sodium Hydroxide 0.4 Normal NIST Traceable Solution

(Contd. of page 3)

#### · Control parameters

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

#### CAS: 1310-73-2 Sodium Hydroxide

PEL Long-term value: 2 mg/m<sup>3</sup>
REL Ceiling limit value: 2 mg/m<sup>3</sup>
TLV Ceiling limit value: 2 mg/m<sup>3</sup>

- · 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 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

#### · 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.

#### · 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

### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid
Color: Clear
Odor: Odorless

(Contd. on page 5)

Printing date 06/19/2024 Reviewed on 06/19/2024

Trade name: Sodium Hydroxide 0.4 Normal NIST Traceable Solution

PH-value: Not determined.  Change in condition Melting point/Melting range: 100 °C (212 °F)  Flash point: Not applicable.  Flammability (solid, gaseous): Not applicable.  Decomposition temperature: Not determined.  Ignition temperature: Product is not selfigniting.  Danger of explosion: Product does not present an explosion hazard.  Explosion limits: Lower: Not determined.  Upper: Not determined.  Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg)  Density at 20 °C (68 °F): 1.05995 g/cm³ (8.84528 lbs/gal)  Relative density Not determined.  Vapor density Not determined.  Solubility in / Miscibility with Water: Fully miscible.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Not determined.  Not determined.  Solvent content: Water: 98.4 % VOC content: 0.00 % 0.0 g/1/0.00 lb/gal  Solids content: 1.6 %		(Contd.	of pag
Change in condition Melting point/Melting range: Boiling point/Boiling range: 100 °C (212 °F)  Flash point: Not applicable.  Flammability (solid, gaseous): Not applicable.  Decomposition temperature: Not determined.  Ignition temperature: Product is not selfigniting.  Danger of explosion: Product does not present an explosion hazard.  Explosion limits: Lower: Upper: Not determined. Upper: Not determined. Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg)  Density at 20 °C (68 °F): Not determined. Vapor density Not determined. Solubility in / Miscibility with Water: Fully miscible.  Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Kinematic: Not determined. Solvent content: Water: Water: Water: 98.4 % VOC content: 0.00 % 0.0 g/1 / 0.00 lb/gal  Solids content:	Odor threshold:	Not determined.	
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Vapor pressure at 20 °C (68 °F):  Density at 20 °C (68 °F):  Relative density Not determined. Vapor density Not determined.  Solubility in / Miscibility with Water: Fully miscible.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Kinematic: Not determined.  Solvent content: Water: 98.4 % VOC content: 0.00 % 0.0 g/l / 0.00 lb/gal  Solids content: 1.6 %	Lower:	Not determined.	
Density at 20 °C (68 °F): Relative density Not determined. Vapor density Not determined.  Evaporation rate Not determined.  Solubility in / Miscibility with Water: Fully miscible.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Kinematic: Not determined. Kinematic: Not determined.  Solvent content: Water: 98.4 % VOC content: 0.00 % 0.0 g/l / 0.00 lb/gal  Solids content: 1.6 %	Upper:	Not determined.	
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Viscosity:   Not determined.   Not determined.   Not determined.	Water:	Fully miscible.	
Dynamic:         Not determined.           Kinematic:         Not determined.           Solvent content:         98.4 %           VOC content:         0.00 %           0.0 g/l / 0.00 lb/gal           Solids content:         1.6 %	Partition coefficient (n-octanol/wate	e <b>r):</b> Not determined.	
Kinematic:         Not determined.           Solvent content:         98.4 %           VOC content:         0.00 %           0.0 g/l / 0.00 lb/gal           Solids content:         1.6 %	· Viscosity:		
Solvent content:   Water: 98.4 %	•		
Water:       98.4 %         VOC content:       0.00 %         0.0 g/l / 0.00 lb/gal         Solids content:       1.6 %	Kinematic:	Not determined.	
VOC content:       0.00 %         0.0 g/l / 0.00 lb/gal         Solids content:       1.6 %	Solvent content:		
0.0 g/l / 0.00 lb/gal <b>Solids content:</b> 1.6 %			
Solids content: 1.6 %	VOC content:		
		0.0 g/l / 0.00 lb/gal	
Other information No further relevant information available.	Solids content:	1.6 %	
	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.

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## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 126,064 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: Strong caustic effect on skin and mucous membranes.
- · on the eye: Strong caustic effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

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.

· 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:

Not hazardous for water.

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.

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Trade name: Sodium Hydroxide 0.4 Normal NIST Traceable Solution

(Contd. of page 6)

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

Transport information	
· UN-Number · DOT, ADN, IMDG, IATA	Not regulated
· UN proper shipping name · DOT, ADN, IMDG, IATA	Not regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA · Class	Not regulated
Packing group DOT, IMDG, IATA	Not regulated
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	
· DOT · Remarks:	Not regulated
· IMDG · Remarks:	Not regulated
· IATA · Remarks:	Not regulated
· UN "Model Regulation":	Not regulated

## 15 Regulatory information

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

· Section 355 (ex	xtremely ha	azardous su	bstances):
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None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

Water *ACTIVE* Sodium Hydroxide *ACTIVE* 

(Contd. on page 8)

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Trade name: Sodium Hydroxide 0.4 Normal NIST Traceable Solution

(Contd. of page 7)

#### · Hazardous Air Pollutants

None of the ingredients is listed.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· 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



GHS05

- · Signal word Danger
- · Hazard statements

Causes severe skin burns and eye damage.

· Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Wear protective gloves.

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.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Printing date 06/19/2024 Reviewed on 06/19/2024

Trade name: Sodium Hydroxide 0.4 Normal NIST Traceable Solution

(Contd. of page 8)

## 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 0.1, 06/19/2024: Reviewed SDS for accuracy. MH/STN

Creation date for SDS 08-05-2014. STN

06/19/2024 / 1.0

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

 ${\it IATA: International Air Transport Association}$ 

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

Skin Corrosion 1A: Skin corrosion/irritation - Category 1A

\* Data compared to the previous version altered.

US