according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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## **1** Identification

#### Product identifier

- Trade name: 0.4% Sodium Hydroxide
- · Product code: SH6354SS
- · Recommended use and restriction on use
- · Recommended use: Laboratory chemicals
- Restrictions on use: No relevant information available.

 Details of the supplier of the Safety Data Sheet
 Manufacturer/Supplier: AquaPhoenix Scientific, Inc.
 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aguaphoenixsci.com

### · Emergency telephone number:

ChemTel

1-800-255-3924 (North America) +1 (813)248-0585 (International)

## 2 Hazard(s) identification

### · Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

### <sup>.</sup> Label elements

· GHS label elements Not regulated.

- · Hazard pictograms: None.
- · Signal word: None.
- · Hazard statements: None.
- Precautionary statements: None.

• Other hazards There are no other hazards not otherwise classified that have been identified.

## **3** Composition/information on ingredients

#### · Chemical characterization: Mixtures

#### · Components:

7732-18-5 Water

1310-73-2 Sodium hydroxide

砂 Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318

### · Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

## 4 First-aid measures

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99.6% 0.4%

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<sup>·</sup> Description of first aid measures	
• General information: No special measures required.	
• After inhalation: Supply fresh air; consult doctor in case of complaints.	
• After skin contact: If skin irritation continues, consult a doctor.	
· After eye contact:	
Protect unharmed eye.	
Remove contact lenses if worn.	
Rinse opened eye for several minutes under running water. If symptoms pers	sist_consult a doctor
· After swallowing:	
Rinse out mouth and then drink plenty of water.	
Do not induce vomiting; immediately call for medical help.	
· Most important symptoms and effects, both acute and delayed:	
Gastric or intestinal disorders when ingested.	
Nausea in case of ingestion.	
May cause mild to moderate eye irritation.	
· Danger: Causes mild skin irritation.	
· Indication of any immediate medical attention and special treatment nee	eded:
Medical supervision for at least 48 hours.	
If medical advice is needed, have product container or label at hand.	
5 Fire-fighting measures	
· Extinguishing media	
· Suitable extinguishing agents: Use fire fighting measures that suit the envi	ironment.
· For safety reasons unsuitable extinguishing agents: No relevant information	
· Special hazards arising from the substance or mixture	
Formation of toxic gases is possible during heating or in case of fire.	
Advice for firefighters	
· Protective equipment:	
Wear self-contained respiratory protective device.	

## 6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

## • Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Place in properly marked container for disposal.

## **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

## 7 Handling and storage

#### · Handling

## · Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

· Information about protection against explosions and fires: No special measures required.

## · Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: steel.

Unsuitable material for receptacle: glass or ceramic.

Store only in the original receptacle.

Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with acids.

Store away from oxidizing agents.

Store away from metals.

### Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep containers tightly sealed.

Specific end use(s) No relevant information available.

## 8 Exposure controls/personal protection

### · Control parameters

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

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

1310-73-2 Sodium hydroxide

PEL (USA)	Long-term value: 2 mg/m <sup>3</sup>
REL (USA)	Ceiling limit value: 2 mg/m <sup>3</sup>
TLV (USA)	Ceiling limit value: 2 mg/m <sup>3</sup>
EL (Canada)	Ceiling limit value: 2 mg/m³
EV (Canada)	Ceiling limit value: 2 mg/m³
LMPE (Mexico)	Ceiling limit value: 2 mg/m³

## • Exposure controls

### General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

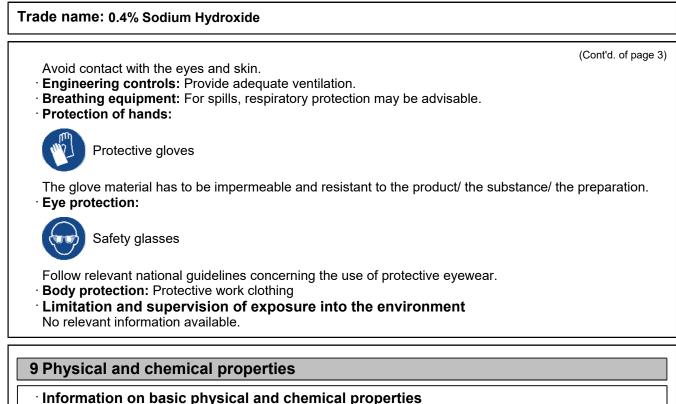
Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

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<ul> <li>Information on basic physical a</li> <li>Appearance:</li> </ul>	nd chemical properties	
Form:	Liquid	
Color:	Colorless	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	13	
• Melting point/Melting range:	Not determined.	
· Boiling point/Boiling range:	110-120 °C (230-184 °F)	
· Flash point:	The product is not flammable.	
· Flammability (solid, gaseous):	Not applicable.	
• Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
• Oxidizing properties:	Not determined.	
· Vapor pressure:	Not determined.	
· Density:		
Relative density:	1.0-1.2	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
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•	Fully miscible. ater): Not determined.	
Water: • Partition coefficient (n-octanol/w • Viscosity		
•	ater): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	
Stability and reactivity		
Possibility of hazardous react Strong exothermic reaction with aci Attacks materials containing glass a Reacts with various metals. Toxic fumes may be released if hea Conditions to avoid Excessive h Incompatible materials Metals.	ds. and silicate. ated above the decomposition point.	
Strong acids Hazardous decomposition pro Under fire conditions only:	oducts	

- Acute toxicity:
- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- · On the skin:
- Causes mild skin irritation.
- Based on available data, the classification criteria are not met.
- · On the eye:
- May cause mild to moderate eye irritation.
- Based on available data, the classification criteria are not met.
- Sensitization: Based on available data, the classification criteria are not met.

## · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

## NTP (National Toxicology Program):

None of the ingredients are listed.

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#### · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Probable route(s) of exposure:

Ingestion.

Inhalation. Eve contact.

Skin contact.

Acute effects (acute toxicity, irritation and corrosivity):

May cause mild to moderate eye irritation.

Causes mild skin irritation.

· Repeated dose toxicity: No relevant information available.

• Germ cell mutagenicity: Based on available data, the classification criteria are not met.

· Carcinogenicity: Based on available data, the classification criteria are not met.

• **Reproductive toxicity:** Based on available data, the classification criteria are not met.

• STOT-single exposure: Based on available data, the classification criteria are not met.

• STOT-repeated exposure: Based on available data, the classification criteria are not met.

• Aspiration hazard: Based on available data, the classification criteria are not met.

## **12 Ecological information**

· Toxicity

· Aquatic toxicity No relevant information available.

Persistence and degradability No relevant information available.

· Bioaccumulative potential: No relevant information available.

• Mobility in soil: No relevant information available.

• Ecotoxical effects:

• **Remark:** After neutralization a reduction of the harming action may be recognized

Additional ecological information

· General notes:

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

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Other adverse effects No relevant information available.

## **13 Disposal considerations**

### <sup>·</sup> Waste treatment methods

### · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

### <sup>·</sup> Uncleaned packagings

• **Recommendation:** Disposal must be made according to official regulations.

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### Trade name: 0.4% Sodium Hydroxide

· Recommended cleansing agent: Water, if necessary with cleansing agents.

Not regulated.	
Not regulated.	
Not regulated.	
Not regulated.	
Νο	
Not applicable.	
ll of	
-	Not regulated. Not regulated. Not regulated. Not regulated. No No No No

## 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture · United States (USA) · SARA · Section 302 (extremely hazardous substances): None of the ingredients are listed. Section 313 (Specific toxic chemical listings): None of the ingredients are listed. · TSCA (Toxic Substances Control Act) All ingredients are listed or exempt. · Proposition 65 (California) · Chemicals known to cause cancer: None of the ingredients are listed. · Chemicals known to cause developmental toxicity for females: None of the ingredients are listed. Chemicals known to cause developmental toxicity for males: None of the ingredients are listed. · Chemicals known to cause developmental toxicity: (Cont'd. on page 8)

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None of the ingredients are listed.

**EPA** (Environmental Protection Agency):

None of the ingredients are listed.

#### IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

#### Canadian Domestic Substances List (DSL):

All ingredients listed on DSL or NDSL.

## **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.

#### · Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Met. Corr.1: Corrosive to metals - Category 1 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

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