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

Revision: August 23, 2020

1 Identification	n	
· Product identi	lifier	
<ul> <li>Trade name: <u>Sc</u></li> <li>Product code: Sc</li> </ul>	odium Hydroxide, 10% w/w SH6362SS	
Recommended	l use and restriction on use l use: Laboratory chemicals n use: No relevant information available.	
Details of the Manufacturer/S AquaPhoenix So 860 Gitts Run Ro Hanover, PA 173 Tel +1 (717)632- Toll-Free: (866)6 info@aquaphoen Distributor: AquaPhoenix So 860 Gitts Run R Hanover, PA 17 (717) 632-1291	cientific, Inc. Road 331 USA -1291 632-1291 enixsci.com cientific Road, 7331	
ChemTel Inc. (800)255-3924 (	ephone number: (North America) i85 (International)	
2 Hazard(s) ide	entification	
	entification of the substance or mixture	
Classification Met. Corr.1 H	<b>o of the substance or mixture</b> 1290 May be corrosive to metals.	
Classification Met. Corr.1 H. Skin Corr. 1A H.	<b>a of the substance or mixture</b> 1290 May be corrosive to metals. 1314 Causes severe skin burns and eye damage.	
<sup>•</sup> Classification Met. Corr.1 H Skin Corr. 1A H Eye Dam. 1 H • Label element • GHS label elem	a of the substance or mixture 1290 May be corrosive to metals. 1314 Causes severe skin burns and eye damage. 1318 Causes serious eye damage. 1318 ts nents classified and labeled according to the Globally Harmonized System (GHS	5).
<ul> <li>Classification</li> <li>Met. Corr.1 H.</li> <li>Skin Corr. 1A H.</li> <li>Eye Dam. 1 H.</li> <li>Label element</li> <li>GHS label elem</li> <li>The product is cl</li> <li>Hazard pictogra</li> <li>GHS05</li> <li>Signal word: Date</li> <li>Hazard statemet</li> <li>H290 May be co</li> </ul>	an of the substance or mixture 1290 May be corrosive to metals. 1314 Causes severe skin burns and eye damage. 1318 Causes serious eye damage. 1318 Causes severe skin burns and eye damage.	5).

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

Revision: August 23, 2020

#### Trade name: Sodium Hydroxide, 10% w/w

(Cont'd. of page 1)

P280	Wear protective gloves/protective clothing/eye protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/container in accordance with local/regional/national/international
 	regulations.

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	89.44%
1310-73-2 Sodium hydroxide	10.56%
谷 Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	
Additional information	

· 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

#### <sup>•</sup> Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate help for blistering or open wounds.

#### • After eye contact:

Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then 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:

Nausea in case of ingestion.

Strong caustic effect on skin and mucous membranes.

Gastric or intestinal disorders when ingested.

(Cont'd. on page 3)

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

Revision: August 23, 2020

#### Trade name: Sodium Hydroxide, 10% w/w

(Cont'd. of page 2)

· Danger:

Danger of gastric perforation.

Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed:

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:

The product is not flammable.

Use fire fighting measures that suit the environment.

• For safety reasons unsuitable extinguishing agents: None.

• Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

#### <sup>•</sup> Advice for firefighters

#### · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### 6 Accidental release measures

#### • Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Particular danger of slipping on leaked/spilled product.

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.

Inform respective authorities in case of seepage into 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). Send for recovery or disposal in suitable receptacles.

#### **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.

### 7 Handling and storage

#### <sup>·</sup> Handling

#### • Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

(Cont'd. on page 4)

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

Revision: August 23, 2020

	Cont'd. of pag) I <b>nformation about protection against explosions and fires:</b> No special measures required.
	intornation about protection against explosions and mes. No special measures required.
1	Conditions for safe storage, including any incompatibilities
	Requirements to be met by storerooms and receptacles:
	Use only receptacles specifically permitted for this substance/product.
	Unsuitable material for receptacle: aluminium.
	Unsuitable material for receptacle: steel.
	Unsuitable material for receptacle: glass or ceramic.
	Information about storage in one common storage facility:
	Store away from foodstuffs.
	Do not store together with acids.
ļ	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.

#### · 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/m³
TLV (USA)	Ceiling limit value: 2 mg/m <sup>3</sup> Ceiling limit value: 2 mg/m <sup>3</sup> Ceiling limit value: 2 mg/m <sup>3</sup>
EL (Canada)	Ceiling limit value: 2 mg/m³
EV (Canada)	Ceiling limit value: 2 mg/m <sup>3</sup>
LMPE (Mexico)	Ceiling limit value: 2 mg/m <sup>3</sup>

#### • 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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

• Engineering controls: No relevant information available.

#### · Breathing equipment:

Not required under normal conditions of use.

Use suitable respiratory protective device when aerosol or mist is formed.

For spills, respiratory protection may be advisable.

#### • Protection of hands:

(Cont'd. on page 5)

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

Revision: August 23, 2020

Trade name: Sodium Hydroxide, 10% w/w

(Cont'd. of page 4)

M P

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. **Material of gloves** Nitrile rubber, NBR

Neoprene gloves

Butyl rubber, BR

Natural rubber, NR

Sensibilization by the components in the glove materials is possible.

Eye protection:



Safety glasses

· Body protection: Alkaline resistant protective clothing

Limitation and supervision of exposure into the environment

No relevant information available.

· Risk management measures No relevant information available.

Information on basic physical and chemical properties		
Appearance:		
Form:	Liquid	
Color:	Colorless	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	>13	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	Not determined.	
Flash point:	Not applicable.	
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 at 20 °C (68 °F):	1.43-1.47 g/cm³ (11.93-12.27 lbs/gal)	
Relative density:	Not determined.	

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

Revision: August 23, 2020

		(Cont'd. of p
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with	 	
Water:	Fully miscible.	
Partition coefficient (n-octan	ol/water): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	

· Reactivity: No relevant information available.

- · Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.

#### <sup>•</sup> Possibility of hazardous reactions

Exothermic reaction with acids.

Corrosive action on metals.

Attacks materials containing glass and silicate.

Toxic fumes may be released if heated above the decomposition point.

Conditions to avoid No relevant information available.

#### <sup>·</sup> Incompatible materials

Acids.

Metals.

Oxidizers

Hazardous decomposition products Possible in traces.

#### **11 Toxicological information**

· Information on toxicological effects

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

· LD/LC50 values that are relevant for classification: None.

- · 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.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

#### · NTP (National Toxicology Program):

None of the ingredients are listed.

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

None of the ingredients are listed.

(Cont'd. on page 7)

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

Revision: August 23, 2020

Trade name: Sodium Hydroxide, 10% w/w (Cont'd. of page 6) · Probable route(s) of exposure: Ingestion. Inhalation. Eve contact. Skin contact. • Acute effects (acute toxicity, irritation and corrosivity): Causes severe skin burns and eye damage. · 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** · Toxicitv · 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

#### <sup>•</sup> 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:

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

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.

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

(Cont'd. on page 8)

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

Revision: August 23, 2020

(Cont'd. of page 7)

Trade name: Sodium Hydroxide, 10% w/w

**14 Transport information** <sup>·</sup> UN-Number · DOT, ADR/RID/ADN, IMDG, IATA UN1824 · UN proper shipping name · DOT, IATA Sodium hydroxide solution ADR/RID/ADN, IMDG SODIUM HYDROXIDE SOLUTION Transport hazard class(es) · DOT · Class 8 · Label 8 · ADR/RID/ADN, IMDG · Class 8 · Label 8 ·IATA · Label 8 Packing group DOT, ADR/RID/ADN, IMDG, IATA Ш • Environmental hazards • Marine pollutant: No • Special precautions for user Warning: Corrosive substances · EMS Number: F-A,S-B · Segregation groups Alkalis <sup>·</sup> Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

### 15 Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture
 United States (USA)
 SARA

(Cont'd. on page 9)

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

Revision: August 23, 2020

	Revision: August 23, 202
rade name: Sodium Hydroxide, 10% w/w	
	(Cont'd. of page
· 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)	
1310-73-2 Sodium hydroxide	
7732-18-5 Water	
· 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:	
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):	
None of the ingredients are listed.	
6 Other information	
This information is based on our present knowledge. However, this sha	all not constitute a guarantee for a
specific product features and shall not establish a legally valid contract	
· Abbreviations and acronyms:	
ADR: European Agreement concerning the International Carriage of Dangerous Goods IMDG: International Maritime Code for Dangerous Goods	by Road
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	

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:

(Cont'd. on page 10)

# Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 23, 2020

Trade name: Sodium Hydroxide, 10% w/w

(Cont'd. of page 9)

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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 Website: www.chemtel.com