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

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Revision: October 08, 2018

· Product identi	ïer
Trade name: <u>So</u> CAS Number: Si	dium Hydroxide, 0.1N H6200SS
Recommended	use and restriction on use use: Laboratory chemicals use: No relevant information available.
Details of the s Manufacturer/Su AquaPhoenix Sci 860 Gitts Run Ro Hanover, PA 173 Phone: (717)632- Toll-Free: (866)63 info@aquaphoen	entific, Inc. ad 31 1291 32-1291
Emergency tele ChemTel Inc. (800)255-3924 (I +1 (813)248-058	North America)
2 Hazard(s) ide	ntification
	ntification of the substance or mixture
· Classification	
Classification Skin Irrit. 2 H31	of the substance or mixture
 Classification Skin Irrit. 2 H31 Eye Irrit. 2A H31 Label elements GHS label elements The product is classification 	of the substance or mixture 5 Causes skin irritation. 9 Causes serious eye irritation. 9 sents assified and labeled according to the Globally Harmonized System (GHS).
 Classification Skin Irrit. 2 H31 Eye Irrit. 2A H31 Label elements GHS label elements 	of the substance or mixture 5 Causes skin irritation. 9 Causes serious eye irritation. 9 sents assified and labeled according to the Globally Harmonized System (GHS).

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3 Composition/information on ingredients				
· Chemical characterization: Mixtures				
· Components:				
7732-18-5 Water	99.6%			
1310-73-2 Sodium hydroxide	0.4%			
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

[•] Description of first aid measures

- · General information: No special measures required.
- After inhalation: Supply fresh air and to be sure to call for a doctor.
- · After skin contact: If skin irritation is experienced, consult a doctor.
- · 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.

Gastric or intestinal disorders when ingested.

Danger: Causes skin and eye irritation.

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: Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No relevant information available.
- 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.

Wear fully protective suit.

6 Accidental release measures

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Personal precautions, protective equipment and emergency procedures For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

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.

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: steel.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: glass or ceramic.

Store only in the original receptacle.

Information about storage in one common storage facility:

Store away from metals.

Store away from foodstuffs.

• Further information about storage conditions: 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/m³

· · · ·	o	
REL (USA)	Ceiling limit value: 2 mg/m ³	
TLV (USA)	Ceiling limit value: 2 mg/m³	
		(Cont'd on page

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EL (Canada) Ceiling limit value: 2 m	(Cont'd. of page 3)
EV (Canada) Ceiling limit value: 2 m	-
LMPE (Mexico) Ceiling limit value: 2 m	-
Livit L (Mexico) Centry Intit value. 2 fr	ig/iii
[•] Exposure controls	
· General protective and hygienic mea	asures:
Keep away from foodstuffs, beverages	handling chemicals should be followed.
Immediately remove all soiled and cont	
Wash hands before breaks and at the	end of work.
Avoid contact with the eyes and skin.	ate ventilation
• Engineering controls: Provide adequation of the second s	, respiratory protection may be advisable.
· Protection of hands:	, respiratory protection may be advisable.
Protective gloves	
The glove material has to be impermea	able and resistant to the product/ the substance/ the preparation.
Penetration time of glove material	
5	e found out by the manufacturer of the protective gloves and has to
be observed. • Eye protection:	
Safety glasses	
Follow relevant national guidelines con	
• Body protection: Protective work cloth	-
 Limitation and supervision of ex No relevant information available. 	posure into the environment
	(*
9 Physical and chemical proper	ties
Information on basic physical an	d chemical properties
· Appearance:	
Form:	Liquid
Color: · Odor:	Clear, colorless Odorless
· Odor threshold:	Not determined.
· pH-value at 20 °C (68 °F):	13
Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	110-120 °C (230-248 °F)
Flash point:	The product is not flammable.
· Flammability (solid, gaseous):	Not applicable.
• Auto-ignition temperature:	Not determined.
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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:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wat	ter): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	

10 Stability and reactivity

· 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.

Possibility of hazardous reactions

Strong exothermic reaction with acids.

Attacks materials containing glass and silicate.

Reacts with various metals.

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

• Conditions to avoid Excessive heat.

Incompatible materials

Metals.

Strong acids

[•] Hazardous decomposition products

Under fire conditions only:

Toxic metal oxide smoke

11 Toxicological information

Information on toxicological effects
 Acute toxicity:

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- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:

· On the skin: Irritant to skin and mucous membranes.

· **On the eye:** Causes eye irritation.

• 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.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

• Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes and skin.

- · 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.
- Additional ecological information
- · General notes:

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 relevant information available.

13 Disposal considerations

- [•] Waste treatment methods
- · Recommendation:

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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.

[·] 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, ADR, IMDG, IATA	Not regulated.	
[·] UN proper shipping name		
· DOT, ADR, IMDG, IATA	Not regulated.	
[·] Transport hazard class(es)		
· DOT, ADR, IMDG, IATA		
· Class	Not regulated.	
Packing group		
DOT, ADR, IMDG, IATA	Not regulated.	
· Environmental hazards	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	ll of	
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
· DOT		
· Hazardous substance:	1000 lbs, 454 kg	

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 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

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TSCA (Toxic Substances Control Act)

All ingredients are listed.

· 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) (Substances not listed.):

All ingredients are listed.

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 PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration Met. Corr.1: Corrosive to metals - Category 1 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A · 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 (Cont'd. on page 9)

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