According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.25.2017

Sodium Hydroxide, 2.0M

# **SECTION 1: Identification**

#### **Product identifier**

Product name: Sodium Hydroxide, 2.0M Product code: SH6265SS

# Recommended use of the product and restriction on use

Relevant identified uses: Laboratory chemicals Uses advised against: Not determined or not applicable. Reasons why uses advised against: Not determined or not applicable.

# Manufacturer or supplier details

Manufacturer: United States AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

Emergency telephone number: Canada ChemTel: (24-hour) +1(800)255-3924 +1(813)248-0585 (International)

# SECTION 2: Hazard(s) identification

#### **GHS classification:**

Serious eye damage, category 1 Skin corrosion, category 1A

# Label elements

# Hazard pictograms:



Signal word: Danger

# Hazard statements:

H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

# **Precautionary statements:**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P305+P351+P338+P310 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 or doctor/physician. P321 Specific treatment (see supplemental first aid instructions on this label).

P363 Wash contaminated clothing before reuse.

P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

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P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353+P310 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. P405 Store locked up.

P501 Dispose of contents and container as instructed in Section 13.

# Hazards not otherwise classified: None

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

Identification	Name	Weight %
CAS number: 1310-73-2	Sodium hydroxide	<10
CAS number: 7732-18-5	Water	>90

#### Additional Information: None

**SECTION 4: First aid measures** 

## **Description of first aid measures**

## General notes:

Not determined or not applicable.

# After inhalation:

Move exposed individual to fresh air Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway Immediately call a POISON CONTROL CENTER or seek medical attention

# After skin contact:

Immediately remove all contaminated clothing Wash affected area with soap and water Immediately call a POISON CONTROL CENTER or seek medical attention

# After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes Remove contact lens(es) if able to do so during rinsing Immediately call a POISON CONTROL CENTER or seek medical attention

#### After swallowing:

Immediately call a POISON CONTROL CENTER or seek medical attention Do not induce vomiting Rinse mouth and then drink plenty of water

# Most important symptoms and effects, both acute and delayed

# Acute symptoms and effects:

Not determined or not applicable.

# **Delayed symptoms and effects:**

Not determined or not applicable.

#### Immediate medical attention and special treatment

#### **Specific treatment:**

Not determined or not applicable.

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# Notes for the doctor:

Not determined or not applicable.

### **SECTION 5: Firefighting measures**

### **Extinguishing media**

### Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

#### Unsuitable extinguishing media:

Not determined or not applicable.

# Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

# Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing

Refer to Section 8

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

# **Special precautions:**

Heating causes a rise in pressure, risk of bursting and combustion Shut off sources of ignition Carbon monoxide and carbon dioxide may form upon combustion

# **SECTION 6: Accidental release measures**

# Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation Ensure air handling systems are operational Wear protective eye wear, gloves and clothing

#### **Environmental precautions:**

Should not be released into the environment Prevent from reaching drains, sewer or waterway

#### Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

# **Reference to other sections:**

Not determined or not applicable.

# SECTION 7: Handling and storage

#### Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Use only with adequate ventilation.

# Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area. Store away from foodstuffs.

#### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

# **Occupational Exposure limit values:**

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Sodium hydroxide	1310-73-2	ACGIH TLV C 2.0 mg/m <sup>3</sup>
United States (OSHA)	Sodium hydroxide	1310-73-2	OSHA PEL TWA 2.0 mg/m <sup>3</sup>
NIOSH	Sodium hydroxide	1310-73-2	NIOSH REL C 2.0 mg/m <sup>3</sup>
	Sodium hydroxide	1310-73-2	NIOSH IDLH 10.0 mg/m <sup>3</sup>

# **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

# Information on monitoring procedures:

Not determined or not applicable.

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

# Personal protection equipment

### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

# Skin and body protection:

Select glove material impermeable and resistant to the substance.

#### **Respiratory protection:**

When necessary, use NIOSH-approved breathing equipment.

#### General hygienic measures:

Wash hands before breaks and at the end of work. Avoid contact with skin, eyes and clothing. Perform routine housekeeping. Wash contaminated clothing before reusing.

# **SECTION 9: Physical and chemical properties**

# Information on basic physical and chemical properties

Appearance	Clear, colorless liquid
Odor	Odorless
Odor threshold	Not available
рН	Alkaline
Melting point/freezing point	Approx. 0°C
Initial boiling point/range	Approx. 100°C
Flash point (closed cup)	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available
Vapor pressure	14 mmHg at 20°C
Vapor density	>1
Density	Not available
Relative density	Approx. 1

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Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	Not available
Dynamic viscosity	Not available
Kinematic viscosity	Not available
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

#### Other information

# **SECTION 10: Stability and reactivity**

#### **Reactivity:**

Does not react under normal conditions of use and storage.

#### Chemical stability:

Stable under normal conditions of use and storage.

# Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

# Incompatible materials:

None known.

Hazardous decomposition products:

None known.

# **SECTION 11: Toxicological information**

#### Acute toxicity

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

Product data: No data available.

Substance data: No data available.

#### Skin corrosion/irritation

Assessment: Causes severe skin burns and eye damage

Product data: No data available.

#### Substance data:

Name	Result
Sodium hydroxide	Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

**Assessment:** Causes serious eye damage

Product data: No data available.

Substance data: No data available.

#### Respiratory or skin sensitization

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

Product data: No data available.

Substance data: No data available.

# Carcinogenicity

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

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<ul> <li>Product data: No data available.</li> <li>Substance data: No data available.</li> <li>International Agency for Research on Cancer (IARC): None of the ingredients are listed.</li> <li>National Toxicology Program (NTP): None of the ingredients are listed.</li> <li>Germ cell mutagenicity</li> <li>Assessment: Based on available data, the classification criteria are not met.</li> <li>Product data: No data available.</li> </ul>	- d
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Germ cell mutagenicity Assessment: Based on available data, the classification criteria are not met.	20.
Assessment: Based on available data, the classification criteria are not met.	
Product data: No data available.	
Substance data: No data available.	
Reproductive toxicity	
Assessment: Based on available data, the classification criteria are not met.	
Product data: No data available.	
Substance data: No data available.	
Specific target organ toxicity (single exposure)	
Assessment: Based on available data, the classification criteria are not met.	
Product data: No data available.	
Substance data: No data available.	
Specific target organ toxicity (repeated exposure)	
Assessment: Based on available data, the classification criteria are not met.	
Product data: No data available.	
Substance data: No data available.	
Aspiration toxicity	
Assessment: Based on available data, the classification criteria are not met.	
Product data: No data available.	
Substance data: No data available.	
Information on likely routes of exposure: No data available.	
Symptoms related to the physical, chemical and toxicological characteristics: No data	a availab
Other information: No data available.	
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Other information: No data available. ECTION 12: Ecological information	
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### **Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

# **SECTION 14: Transport information**

# United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN1824
UN proper shipping name	Sodium Hydroxide Solution
UN transport hazard class(es)	8
Packing group	П
Environmental hazards	None
Special precautions for user	None

# International Maritime Dangerous Goods (IMDG)

UN number	UN1824
UN proper shipping name	Sodium Hydroxide Solution
UN transport hazard class(es)	8
Packing group	II
Environmental hazards	None
Special precautions for user	None

# International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN1824
UN proper shipping name	Sodium Hydroxide Solution
UN transport hazard class(es)	8
Packing group	II
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II	of MARPOL73/78 and the IBC Code
Bulk Name	None
Ship type	None
Pollution category	None

#### **SECTION 15: Regulatory information**

#### **United States regulations**

#### Inventory listing (TSCA):

	7732-18-5	Water	Listed
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Listed

1310-73-2	Sodium hydro	xide			Listed
Significant New I	Jse Rule (TSCA Se	ction 5): Not deter	rmined.		
•	on under TSCA Sec	-			
SARA Section 31					
Acute	Chronic	Fire	Pressure	Reactive	5
No	No	No	No	No	
SARA Section 30	2 extremely hazar	dous substances	Not determined.	•	
SARA Section 31	B toxic chemicals:	Not determined.			
CERCLA:					
1310-73-2	Sodium hydro	xide		Listed	1000
RCRA: Not determ	ined.			•	•
Section 112(r) of	the Clean Air Act	(CAA): Not determ	nined.		
Massachusetts R	ight to Know:				
1310-73-2	ight to Know: Sodium hydro	xide			Listed
	-	xide			Not
1310-73-2	Sodium hydro	xide			Listed Not Listed
1310-73-2 7732-18-5 New Jersey Right	Sodium hydro Water				Not
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California Proposition 65: Not determined.

#### **SECTION 16: Other information**

# Abbreviations and Acronyms: None

# **Disclaimer:**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

# NFPA: 3-0-1

HMIS: 3-0-1 Initial preparation date: 04.25.2017

# **End of Safety Data Sheet**