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

Revision: February 13, 2020

1 Identification
· Product identifier
 Trade name: Sodium Hydroxide, 2.0N Product code: DU409274
 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@aquaphoenixsci.com Distributor: Dubois Chemicals Inc. 3630 East Kemper Rd, Cincinnati, OH 45241 (800) 438-2647
• Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification
• Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals. Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals.
 Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals. Skin Corr. 1A H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

>90%

<10%

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	(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.
· Othor hazarde ∃	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

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

• After inhalation: Supply fresh air; consult doctor in case of complaints.

• After skin contact:

Immediately remove any clothing soiled by the product.

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: Cramp Strong caustic effect on skin and mucous membranes. Gastric or intestinal disorders when ingested.

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(Cont'd. of page 2)

Nausea in case of ingestion.

· 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.

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.

[•] 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

[·] Handling

• Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

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(Cont'd. of page 3)

Avoid breathing mist, vapors, or spray. Avoid contact with the eyes and skin. · 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: 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. Store away from oxidizing agents. Store away from metals. • Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. · 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:

1310-73-2 Sodium hydroxide		
PEL (USA)	Long-term value: 2 mg/m ³	
REL (USA)	Ceiling limit value: 2 mg/m ³	
TLV (USA)	Ceiling limit value: 2 mg/m ³	
EL (Canada)	Ceiling limit value: 2 mg/m ³	
EV (Canada)	Ceiling limit value: 2 mg/m ³	
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.

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:



Protective gloves

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(Cont'd. of page 4) The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. · 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.

	9 Physical	and o	cnemical	properties	
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Information on basic physical and chemical properties Appearance: Form: Liquid Color: Colorless Odor threshold: Not determined. Oding point/Melting range: Not determined. PH-value: >12 Melting point/Boiling range: Not determined. Boiling point/Boiling range: Not determined. Flash point: Not applicable. Flash point: Not applicable. Flammability (solid, gaseous): Not determined. Decomposition temperature: Not determined. Danger of explosion: Product does not present an explosion hazard. Explosion limits Lower: Lower: Not determined. Upper: Not determined. Oxidizing properties: Not determined. Vapor pressure: Not determined. Vapor pressure: Not determined. Vapor pressure: Not determined. Vapor of ensity: Not determined. Relative density: 1.0-1.2 Vapor density: Not determined. Evaporation rate: Not determined. So			
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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

Exothermic reaction with acids.

Corrosive action on metals.

Attacks materials containing glass and silicate.

Reacts with metals forming hydrogen.

· Conditions to avoid Avoid acids.

· Incompatible materials Strong acids

· 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:

1310-73-2 Sodium hydroxide

Oral LD50 2000 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.

· 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.

• 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.

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· 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

· 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.

[·] Uncleaned packagings

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

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

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	

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· DOT	
e contractions	
· Class	8
· Label	8
· ADR/RID/ADN	
· Class	8 (C5)
· Label	8
· IMDG, IATA	
· Class	8
· Label	8
[·] Packing group [·] DOT, ADR/RID/ADN, IMDG, IATA	11
Environmental hazards	
· Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
· Hazard identification number (Kemler code):	80
· EMS Number:	F-A,S-B
· Segregation groups	Alkalis
Transport in bulk according to Annex II o	
MARPOL73/78 and the IBC Code	Not applicable.

15 Regulatory information

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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.

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

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Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtel.com