

Sodium Hydroxide, 10.0N

Safety Data Sheet



Section 1

Product Description

Product Name: Sodium Hydroxide, 10.0N
Manufacturer number: SH6325-B
Distributor: Best Sanitizers, Inc.
PO Box 1360 Penn Valley, CA 95946

Chemical Information Emergency:
Aquaphoenix Scientific 1.800.255.3924

Section 2

Hazard Identification

Classification of the substance or mixture:

Skin Corrosion	Category 1A
Serious eye damage	Category 1
Corrosive to metals	Category 1
Acute hazards to the aquatic environment	Category 3

Danger



Appearance—Aqueous solution

Physical state—Liquid

Odor—Odorless

Hazard Statements

Causes serious eye damage.

May be corrosive to metals. May cause cancer.

Causes severe skin burns and eye damage.

Harmful to aquatic life.

Precautionary Statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use. Keep in original container.

Do not handle until all safety precautions have been read and understood.

Use personal protective equipment as required.

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

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid release to the environment.

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IF ON SKIN (or hair): Remove/Takeoff immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

IF exposed or concerned: Get medical advice/attention.

Store in corrosive resistant container with a resistant inner liner.

Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulation.

Precautionary Statements—Disposal

Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)

None

Other Information

Combustible Dust Hazard

May form combustible dust concentrations in air (during processing).

Section 3

Composition/Information on Ingredients

Chemical Name	CAS No.	Weight-%
Sodium Hydroxide	1310-73-2	40
Purified water	7732-18-5	60

Section 4

First Aid Measures

First Aid Measures

Eye Contact

Hold eye(s) open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye(s). Get medical advice/attention.

Skin Contact

Wash affected area with soap and water. Seek immediate medical attention.

Inhalation

Remove to fresh air. Seek immediate medical attention if discomfort or irritation persists. Provide oxygen if breathing is difficult.

Ingestion

Rinse mouth thoroughly. Do NOT induce vomiting.
Drink sips of water.
Seek immediate medical attention.

Most important symptoms and effects, both acute and delayed

Nausea. Headache. Shortness of breath.

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Indication of any immediate medical attention and special treatment needed

If seeking medical attention, provide SDS document to physician.

Physician should treat symptomatically.

Section 5

Fire-Fighting Measures

Suitable Extinguishing Media

If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate suppression agents for adjacent combustible materials or sources ignition.

Unsuitable Extinguishing Media

Carbon dioxide.

Specific hazards arising from the chemical

Not considered to be a fire or explosion hazard.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Containers may explode. Avoid contact with skin, eyes, and clothing.

Section 6

Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Use personal protection recommended in Section 8. Ensure adequate ventilation, especially in confined areas. Keep unprotected persons away. Keep away from ignition sources. Protect from heat. Neutralize with lime or soda ash. Stop the spill, if possible.

Environment Precautions

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquid and dilute with water. Neutralize with dilute acid solutions. Decant water to drain with excess water. Absorb with suitable material. Place into properly labeled containers.

Methods for cleaning up

If necessary, use trained response staff/contractor. Always obey local regulations. Wear protective eyewear, gloves, and clothing.

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Section 7

Handling and Storage

Precautions for Safe Handling

Advice on Safe Handling

Avoid contact with eyes, skin, and clothing. Do not inhale gases, fumes, dust, mist, vapor and aerosols. Wear protective eyewear, gloves and clothing. Refer to Section 8. Do not mix with acids. Do not eat, drink or smoke or use personal products when using this product. Follow good hygiene procedures when handling chemical materials.

Conditions for safe storage, including any incompatibilities

Storage Conditions/

Keep Containers tightly closed in a dry, cool and well-ventilated place. Store as a corrosive.

Incompatible materials

Protect from freezing and physical damage.

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Section 8

Protection Information

Exposure Guidelines

Control Parameters: 1310-73-2 Sodium Hydroxide, OSHA 2mg/m³
1310-73-2 Sodium Hydroxide, ACGIH NIOSH 10 mg/m³

Appropriate Engineering Controls

Engineering Controls Emergency eyewash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits. Occupational exposure limits indicated above. Use under a fume hood.

Individual Protection Measures, such as personal protective equipment

Eye/Face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear impermeable and resistant to the product/ substance/preparation protective gloves. Selection of glove material on consideration of the penetration times, rates of diffusion and degradation.

Respiratory protection Not required under normal conditions of use. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and food sources. Immediately remove all soiled and contaminated clothing. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing and shoes before reuse. Do not Eat, Drink or Smoke when using this product. Do not inhale gases/fumes/dust/mist/vapors/aerosols. Avoid contact with the eyes and skin.

Section 9

Physical and Chemical Properties

Information on basic physical and chemical properties

Formula:	See Section 3	Physical State:	Liquid
Odor:	Odorless	Appearance:	Aqueous solution
Odor Threshold:	Not Determined	Color:	Clear

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Property

pH
Melting Point/Freezing Point
Boiling Point/Boiling Range
Flash Point
Evaporation rate
Flammability (solid, gas)
Flammability Limit in Air
 Upper flammability limit:
 Lower flammability limit:
Vapor pressure:
Vapor density:
Relative density
Water solubility
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity

Values

Alkaline
Approximately 0°C
Approximately 100°C
Not Determined.
Not Determined.
Not Determined.
Not Determined.
Not Determined.
14mm Hg @ 20 C
> 1
1.32
Soluble in water.
No information available.
Not Determined.
Not Determined.
No information available.
No information available.

Section 10

Stability and Reactivity Data

Reactivity

None under normal processing.

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None.

Conditions to avoid

incompatible materials. Excessive heat.

Incompatible materials

Acids. Organic halogen compounds. Metals such as aluminum, tin, and zinc.

Hazardous Decomposition Products

Sodium oxides. Decomposition by reaction with certain metals releases flammable and explosive hydrogen gas.

Section 11

Toxicity Data

Acute Toxicity:

Oral: LD50 Rat: > 90 mL/k

Sensitization

No Information Available

Germ cell mutagenicity

No Information Available

Carcinogenicity

Not listed as a carcinogen: 1310-73-2

Reproductive toxicity

No Information Available

STOT single exposure

No Information Available

STOT repeated exposure

No Information Available

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Section 12

Ecological Data

Ecotoxicity

Toxicity to aquatic life: Sodium Hydroxide has high acute and chronic toxicity to aquatic life influenced by hardness and alkalinity of the receiving water.

Persistence and degradability

None.

Bioaccumulation

Not Bioaccumulative.

Mobility in soil

None.

Other adverse effects

None.

Section 13

Disposal Information

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.
Do not dispose together with household garbage. Do not allow product to reach sewage system or open water.

Section 14

Transport Information

DOT

UN Number	1824
Shipping Name	Sodium Hydroxide Solution
Class	8 Corrosive Substances
Packing Group	II

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Section 15

Regulatory Information

International Inventories

TSCA Complies
DSL/NDSL Complies

Legend:

TSCA—United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL— Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization of 1986 (SARA).

None of the ingredients is listed.

SARA 311/312

None of the ingredients is listed.

CERCLA

1310-73-2 Sodium Hydroide 1000 lbs.

US State Regulations

California Proposition 65

None of the ingredients is listed.

Section 16

Additional Information

<u>NFPA</u>	Health Hazards	Flammability	Instability	Physical and Chemical Properties
	3	0	0	0
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal protection
	3	0	0	X

Prepared by: Technical Department

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Disclaimer

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End of Safety Data Sheet