

Revision Date: 10-12-2015

SAFETY DATA SHEET

1. Identification

Product identifier: Sodium Hydroxide, Solution, 0.1 - 2.0 N

Other means of identification

CAS No.: 1310-73-2

Recommended use and restriction on use

Recommended use: Not available.
Restrictions on use: Not known.

Details of the supplier of the safety data sheet

Manufacturer

Company Name: Quality Environmental Containers, Inc. Address: 607 Industrial Park Road • PO Box 1160

Beaver, WV 25813

Telephone: Customer Service: 800-255-3950

E-mail: info@gecusa.com

Emergency telephone number:

CHEMTREC: 1-800-424-9300

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Corrosive to metals Category 1

Health Hazards

Skin Corrosion/Irritation Category 1A
Serious Eye Damage/Eye Irritation Category 1

Unknown toxicity - Health

Acute toxicity, inhalation, vapor	100 %
Acute toxicity, inhalation, dust or mist	100 %

Unknown toxicity - Environment

Chronic hazards to the aquatic	1 %
environment	

Label Elements

Hazard Symbol:



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Signal Word: Danger

Hazard Statement: May be corrosive to metals.

Causes severe skin burns and eye damage.

Precautionary Statement

Prevention: Keep only in original container. Wash thoroughly after handling. Do not

breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective

clothing/eye protection/face protection.

Response: Absorb spillage to prevent material damage. 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. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Storage: Store locked up. Store in corrosive resistant container with a resistant inner

liner.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
SODIUM HYDROXIDE		1310-73-2	0.8 - 8%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

Ingestion: Call a physician or poison control center immediately. Do not induce

vomiting without advice from poison control center. If vomiting occurs, keep

head low so that stomach content doesn't get into the lungs.

Inhalation: Move to fresh air. Get medical attention if symptoms persist. Apply artificial

respiration if victim is not breathing If breathing is difficult, give oxygen.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse.

Destroy or thoroughly clean contaminated shoes.



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Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Call a physician or poison control center

immediately.

Most important symptoms/effects, acute and delayed

Symptoms: Corrosive to skin and eyes.

Hazards: Corrosive.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: The product is non-combustible. Product is highly caustic.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

The product is non-combustible. Use fire-extinguishing media appropriate

for surrounding materials.

Unsuitable extinguishing

media:

None known.

Specific hazards arising from

the chemical:

Fire may produce irritating, corrosive and/or toxic gases. Product is highly caustic. Wear appropriate protective gear if spilled during fire fighting.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to

flames with water until well after the fire is out.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing.

Methods and material for containment and cleaning

up:

Neutralize spill area and washings with dilute acetic acid. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures: Dike for later disposal. Stop the flow of material, if this is without risk.

Prevent entry into waterways, sewer, basements or confined areas. Inform

authorities if large amounts are involved.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so.



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7. Handling and storage

Precautions for safe handling: Avoid inhalation of vapors and spray mists. Do not get in eyes, on skin, on

clothing. Do not eat, drink or smoke when using the product. Use only with

adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage,

including any incompatibilities:

Do not store in metal containers. Keep container tightly closed in a cool,

well-ventilated place. Store in a dry place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	type	Exposure Limit Values	Source
SODIUM HYDROXIDE	Ceiling	2 mg/m3	US. ACGIH Threshold Limit Values (2011)
	Ceil_Time	2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceiling	2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

Appropriate Engineering

Controls

Adequate ventilation should be provided so that exposure limits are not

exceeded.

Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an

acceptable level.

Eyelface protection: Wear safety glasses with side shields (or goggles). Wear face shield if there

is risk of splashes.

Skin Protection

Hand Protection: Chemical resistant gloves

Other: Wear suitable protective clothing and gloves.

Respiratory Protection: In case of inadequate ventilation use suitable respirator.

Hygiene measures: Provide eyewash station and safety shower. Always observe good personal

hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Colorless
Odor: Odorless

Odor threshold: No data available.

pH: 14



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Melting point/freezing point: -4 °C Initial boiling point and boiling range: 102 °C

Flash Point:not applicableEvaporation rate:As waterFlammability (solid, gas):Not applicable.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

Solubility(ies)

Solubility in water: Soluble

Solubility (other):

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

No data available.

10. Stability and reactivity

Reactivity: Reacts violently with strong acids.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous

Reactions:

Hazardous polymerization does not occur.

Conditions to Avoid: Heat. Contact with incompatible materials.

Incompatible Materials: Oxidizing agents. Acids. Contact with metals may evolve flammable

hydrogen gas. Nitromethane. Halogens.

Hazardous Decomposition

Products:

None known.

11. Toxicological information

Information on likely routes of exposure

Ingestion: May cause burns of the gastrointestinal tract if swallowed.

Inhalation: May cause damage to mucous membranes in nose, throat, lungs and

bronchial system.

Skin Contact: Causes severe skin burns.

Eye contact: Causes serious eye damage.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: No data available.

Dermal



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Product: ATEmix (Rabbit): 13,750 mg/kg

Inhalation

Product: No data available.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: Causes severe skin burns.

Serious Eye Damage/Eye Irritation

Product: Causes serious eye damage.

Respiratory or Skin Sensitization

Product: Not a skin sensitizer.

Carcinogenicity

Product: This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No mutagenic components identified

In vivo

Product: No mutagenic components identified

Reproductive toxicity

Product: No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure Product: None known.

Specific Target Organ Toxicity - Repeated Exposure

Product: None known.

Aspiration Hazard

Product: Not classified

Other effects: None known.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):



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SODIUM HYDROXIDE LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 125 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

SODIUM HYDROXIDE EC 50 (Water flea (Ceriodaphnia dubia), 48 h): 34.59 - 47.13 mg/l

Intoxication

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: There are no data on the degradability of this product.

BOD/COD Ratio

Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Product: No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility in Soil: The product is water soluble and may spread in water systems.

Other Adverse Effects: The product may affect the acidity (pH-factor) in water with risk of harmful

effects to aquatic organisms.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local

laws. Since emptied containers retain product residue, follow label warnings

even after container is emptied.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even

after container is emptied.



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14. Transport information

DOT

UN Number: UN 1824

UN Proper Shipping Name: Sodium hydroxide solution

Transport Hazard Class(es)

Class(es): 8
Label(s): 8
Packing Group: II

Marine Pollutant: Not a Marine Pollutant

Special precautions for user: -

IMDG

UN Number: UN 1824

UN Proper Shipping Name: SODIUM HYDROXIDE SOLUTION

Transport Hazard Class(es)

 Class(es):
 8

 Label(s):
 8

 EmS No.:
 F-A, S-B

Packing Group:

Marine Pollutant: Not a Marine Pollutant

Special precautions for user: -

IATA

UN Number: UN 1824

Proper Shipping Name: Sodium hydroxide solution

Transport Hazard Class(es):

Class(es): 8 Label(s): 8

Marine Pollutant: Not a Marine Pollutant

Packing Group: II Special precautions for user: –

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u> <u>Reportable quantity</u>

SODIUM HYDROXIDE 1000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute (Immediate)

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

<u>Chemical Identity</u> <u>Reportable quantity</u>

SODIUM HYDROXIDE 1000 lbs.



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SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

SODIUM HYDROXIDE 10000 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity Reportable quantity

SODIUM HYDROXIDE Reportable quantity: 1000 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

SODIUM HYDROXIDE

US. Massachusetts RTK - Substance List

Chemical Identity

SODIUM HYDROXIDE

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

SODIUM HYDROXIDE

US. Rhode Island RTK

Chemical Identity

SODIUM HYDROXIDE

Inventory Status:

Australia AICS:

Canada DSL Inventory List:

On or in compliance with the inventory
Not in compliance with the inventory.

Japan (ENCS) List:

On or in compliance with the inventory.
On or in compliance with the inventory.

Japan (ENCS) List:

On or in compliance with the inventory

EU No Longer Polymers List:

Not in compliance with the inventory.

On or in compliance with the inventory.

China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI):

Canada NDSL Inventory:

On or in compliance with the inventory

Not in compliance with the inventory.

Canada NDSL Inventory:

Philippines PICCS:

US TSCA Inventory:

Not in compliance with the inventory.

On or in compliance with the inventory.

On or in compliance with the inventory.

New Zealand Inventory of Chemicals:

Switzerland Consolidated Inventory:

Japan ISHL Listing:

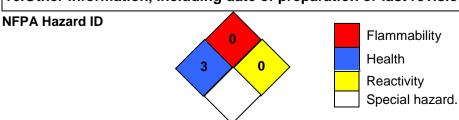
Japan Pharmacopoeia Listing:

On or in compliance with the inventory.

Not in compliance with the inventory.

Not in compliance with the inventory.

16.Other information, including date of preparation or last revision





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Issue Date: 08-28-2015

Revision Date: No data available.

Version #: 1.1

Further Information: No data available.

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