

# **SAFETY DATA SHEET**

Creation Date 14-Oct-2009 Revision Date 13-Jul-22 **Revision Number 1** 

## 1. Identification

**Sodium Hydroxide 0.1N Solution Product Name** 

Cat No.: C7510

**Synonyms** Caustic soda solution; Lye solution (Certified)

**Recommended Use** Laboratory chemicals

Uses advised against No Information available

### Details of the supplier of the safety data sheet

Company Lab Alley LLC

22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 Tel.: 512-668-9918

## **Emergency Telephone Number**

Infotrac: 800-535-5053

# 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Corrosive to metals Category 1 Category 1 Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Category 1 Category 3 Specific target organ toxicity (single exposure)

Target Organs - Respiratory system.

### **Label Elements**

## Signal Word

Danger

### **Hazard Statements**

May be corrosive to metals Causes severe skin burns and eye damage May cause respiratory irritation



### **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

# Keep only in original container

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

### **Eyes**

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.

### Spills

Absorb spillage to prevent material damage

### Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Store in corrosive resistant polypropylene container with a resistant inliner

Store in a dry place

# Disposal

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

None identified

# 3. Composition / information on ingredients

## Haz/Non-haz

Component	CAS-No	Weight %									
Water	7732-18-5	99.6									
Sodium hydroxide	1310-73-2	0.4									

## 4. First-aid measures

**Eye Contact**Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

**Skin Contact**Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention

is required.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation

if victim ingested or inhaled the substance; induce artificial respiration with a respiratory

medical device. Immediate medical attention is required.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects Causes eye burns. **Notes to Physician** Treat symptomatically.

## 5. Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire...

**Unsuitable Extinguishing Media** Carbon dioxide (CO2)

> **Flash Point** Not applicable

Method -No information available.

**Autoignition Temperature** 

**Explosion Limits** 

Upper No data available Lower No data available

Sensitivity to mechanical

impact

No information available.

Sensitivity to static discharge No information available.

No information available.

### Specific Hazards Arising from the Chemical

Corrosive Material. Causes burns by all exposure routes.

**Hazardous Combustion Products** Sodium oxides

## **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. Thermal decomposition can lead to release of irritating gases and vapors.

**NFPA** 

Health	Flammability	Instability	Physical hazards
3	0	0	N/A

## 6. Accidental release measures

Use personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, **Personal Precautions** 

or on clothing.

**Environmental Precautions** Should not be released into the environment. See Section 12 for additional ecological

Information.

Up

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

Handling Use only under a chemical fume hood. Wear personal protective equipment. Do not breathe

vapors or spray mist. Do not get in eyes, on skin, or on clothing.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.

# 8. Exposure controls / personal protection

### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide Ceiling: 2 mg/m <sup>3</sup>		(Vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>
		TWA: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV	
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	Peak: 2 mg/m <sup>3</sup>	CEV: 2 mg/m <sup>3</sup>	

Legend

ACGIH - American Conference of Industrial Hygiene
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: Immediately Dangerous to Life or Health

close to the workstation location.

**Personal Protective Equipment** 

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN

149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

## 9. Physical and chemical properties

Physical StateLiquidAppearanceColorlessOdorodorless

Odor Threshold No information available.

 pH
 13.3

 Melting Point/Range
 >0°C / 32°F

 Boiling Point/Range
 >100°C / 212°F

 Flash Point
 Not applicable

Evaporation Rate
No information available.
Flammability (solid,gas)
No information available.

Flammability or explosive limits

Upper No data available
Lower No data available
Vapor Pressure No information available.

Vapor Density> 1.0Relative Density> 1.0

Solubility Soluble in water Partition coefficient; n-octanol/water No data available

Autoignition TemperatureNo information available.Decomposition temperatureNo information available.ViscosityNo information available.

# 10. Stability and reactivity

Reactive Hazard None known, based on information available.

**Stability** Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat.

Incompatible Materials Strong acids, Metals, Powdered metals

Hazardous Decomposition Products Sodium oxides

Hazardous Polymerization Hazardous polymerization does not occur

Hazardous Reactions None under normal processing

# 11. Toxicological information

### **Acute Toxicity**

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	Not listed	1350 mg/kg (Rabbit)	Not listed

**Toxicologically Synergistic** 

**Products** 

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Causes burns by all exposure routes

**Sensitization** No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed				
Sodium hydroxide	1310-73-2	Not listed				

Mutagenic Effects Mutagenic effects have occurred in experimental animals.

Reproductive Effects

No information available.

Developmental Effects

No information available.

Teratogenicity

No information available.

STOT - single exposure Respiratory system.

STOT - repeated exposure None known.

Aspiration hazard No information available.

Symptoms / effects, both acute and delayed

No information available.

Endocrine Disruptor Information No information available

Other Adverse Effects

The toxicological properties have not been fully investigated.. See actual entry in RTECS for

complete information.

# 12. Ecological information

### **Ecotoxicity**

Mobility

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium hydroxide	Not listed	45.4 mg/L LC50 96 h	Not listed	Not listed

**Persistence and Degradability** No information available. No information available **Bioaccumulation/ Accumulation** No information available

# 13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a **Waste Disposal Methods** 

hazardous waste. Chemical waste generators must also consult local, regional, and national

hazardous waste regulations to ensure complete and accurate classification

# 14. Transport information

### DOT

**UN-No Proper Shipping Name Hazard Class Packing Group** 

## **TDG**

**UN-No Proper Shipping Name Hazard Class Packing Group** 

## **IATA**

**UN-No Proper Shipping Name Hazard Class Packing Group** 

### IMDG/IMO

**UN-No Proper Shipping Name Hazard Class Packing Group** 

# 15. Regulatory information

## **International Inventories**

Component	TSCA	DSL	NDSL	<b>EINECS</b>	<b>ELINCS</b>	NLP	PICCS	ENCS	AICS	CHINA	KECL

	15. Regulatory information										
Water	Х	Х	-	231-791-2	-		Χ	-	Х	Х	Χ
Sodium hydroxide	Χ	Χ	-	215-185-5	-		Χ	Χ	Х	Χ	Χ

#### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

## **U.S. Federal Regulations**

TSCA 12(b) Not applicable

SARA 313 Not applicable

### SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

### **Clean Water Act**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Water	-	1 LB	-	-
Sodium hydroxide	X	1000 lb	_	-

Clean Air Act Not applicable

**OSHA** - Occupational Safety and Health Administration

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	1000 lb	-

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

### State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium hydroxide	X	X	Χ	•	Χ

### **U.S. Department of Transportation**

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

### **Other International Regulations**

Mexico - Grade No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class E Corrosive material



## 16. Other information

Prepared By Regulatory Affairs

Lab Alley LLC.

Email: customerservice@laballey.com

 Creation Date
 14-Oct-2009

 Revision Date
 13-Jul-22

 Print Date
 13-Jul-22

Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

#### **Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS