Buy Sodium Hydroxide Online At https://www.laballey.com/collections/sodium-hydroxide



SAFETY DATA SHEET

Creation Date 14-Oct-2009

Revision Date 13-Feb-2014

Revision Number 1

1. Identification

Product Name	Sodium Hydroxide 1N Solution	
Cat No. :	C7500	
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

2. Hazard(s) identification

Classification

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

Co	rrosive to metals
Ski	n Corrosion/irritation
Sei	rious Eye Damage/Eye Irritation
Spe	ecific target organ toxicity (single exposure)
Tar	get 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 Category 1 Category 1 Category 1 Category 3



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	96
Sodium hydroxide	1310-73-2	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 Method -	Not applicable No information available.
Autoignition Temperature Explosion Limits	No information available.
Upper	No data available
Lower	No data available
Sensitivity to mechanical impact	No information available.
Sensitivity to static discharge	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.

	D۸
INF	ГΑ

Health 3	Flammability 0	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	Use personal protective equor on clothing.	lipment. Ensure adequate venti	ilation. Do not get in eyes, on skin,
Environmental Precautions	Should not be released into the environment. See Section 12 for additional ecological Information.		12 for additional ecological
Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for dispose Up		sed 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 ³	(Vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³
		TWA: 2 mg/m ³	Ceiling: 2 mg/m ³

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

Legend

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

 Engineering Measures
 Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

 Personal Protective Equipment
 Version and safety showers are close to the workstation location.

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 State Appearance Odor **Odor Threshold** pН Melting Point/Range **Boiling Point/Range** Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Relative Density** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition temperature** Viscosity

Liquid Colorless odorless No information available. 13.3 >0°C / 32°F >100°C / 212°F Not applicable No information available. No information available.

No data available No data available No information available. > 1.0 > 1.0 Soluble in water No data available No information available. No information available. No 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		LD50 Oral		LD50 Dermal	LC50	Inhalation
Sodium hydroxide		Not listed	135) mg/kg (Rabbit)	No	ot listed
Toxicologically Synergis Products	stic	No information avai	ilable.			
Delayed and immediate	effects as well	as chronic effect	s from short and	ong-term exposu	re	
Irritation		Causes burns by al	Il exposure routes			
			lahla			
Sensitization		No information avai	liable.			
Sensitization Carcinogenicity				h agency has listed	d any ingredient as	a carcinoger

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

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 Degrada	bility No informatic	on available.						
Bioaccumulation/ Accum	ulation No information	on available						
Mobility	No information	on available						

13. Disposal considerations

```
Waste Disposal Methods
```

Chemical waste generators must determine whether a discarded chemical is classified as a 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

001		
	UN-No Proper Shipping Name Hazard Class Packing Group	UN1824 SODIUM HYDROXIDE SOLUTION 8 II
TDG		
	UN-No Proper Shipping Name Hazard Class Packing Group	UN1824 SODIUM HYDROXIDE SOLUTION 8 II
ΙΑΤΑ		
	UN-No Proper Shipping Name Hazard Class Packing Group	UN1824 SODIUM HYDROXIDE SOLUTION 8 II
IMDG	/IMO	
	UN-No Proper Shipping Name Hazard Class	UN1824 SODIUM HYDROXIDE SOLUTION 8

II

15. Regulatory information

Packing Group

Component TSCA DSL NDSL EINECS ELINCS NLP PICCS ENCS AICS CHINA KECL

		15	. Regi	ulatory	infor	matio	n				
Water	Х	Х	-	231-791-2	-		Х	-	Х	Х	Х
Sodium hydroxide	Х	Х	-	215-185-5	-		Х	Х	Х	Х	Х

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	Х	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	Х	Х	Х	-	Х

U.S. Department of Transportation

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

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

Creation Date Revision Date Print Date Revision Summary Regulatory Affairs Lab Alley LLC Email: customerservice@laballey.com

14-Oct-2009 13-Feb-2014 13-Feb-2014 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