

Safety Data Sheet

Sodium Hydroxide, Beads Technical

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sodium Hydroxide, Beads, NF USP

Synonyms/Generic Names: Caustic Soda

Product Number: 5101

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus, WI. 53925

For More Information: 920-623-2140 (Monday-Friday 8:00-4:30)

www.columbuschemical.com

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Hazard Not Otherwise Classified (HNOC): None

Signal Word: Danger

Pictograms:



GHS Classification:

Skin corrosion	Category 1
Serious eye damage	Category 1
Acute aquatic toxicity	Category 3

GHS Label Elements, including precautionary statements:

Hazard Statements:

H314	Causes severe skin burns and eye damage.
H402	Harmful to aquatic life.

Precautionary Statements:

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P260 Do not breathe dust/fume/gas/mist/vapors/spray.					
P264 Wash hands thoroughly after handling.					
	P273 Avoid release to the environment.				
P280 Wear protective gloves/protective clothing/eye protection/face protection.		Wear protective gloves/protective clothing/eye protection/face protection.			
	P301+P330+P331	IF SWALLOWED: Rinse mouth. Do not induce vomiting.			

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P303+P361+P353			
	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/physician.		
P363	Wash contaminated clothing before reuse.		
P405	Store locked up.		
P501	Dispose of contents/container in accordance with local regulations.		

Potential Health Effects

Eyes	Causes eye irritation.	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.	
Skin	May be harmful if absorbed through skin. Causes skin irritation.	
Ingestion	May be harmful if swallowed.	

NFPA Ratings

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Health	3	
Flammability	0	
Reactivity	3	
Specific hazard	Not Available	

HMIS Ratings

Health	3
Fire	0
Reactivity	3

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Sodium Hydroxide	>99	1310-73-2	215-185-5	NaOH	40.00 g/mol

4. FIRST-AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention immediately.			
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not			
	breathing, give artificial respiration. Get medical attention immediately.			
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated			
	clothing and wash using soap. Get medical attention immediately.			
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If			
_	conscious, wash out mouth with water. Get medical attention immediately.			

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Product is not flammable. Use appropriate media for adjacent fire. Cool containers with water.		
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.		
Specific hazards arising from the chemical	Emits toxic fumes (sodium oxides) under fire conditions. (See also Stability and Reactivity section).		

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.	
Environmental precautions Prevent spillage from entering drains. Any release to the environmental precautions		
	may be subject to federal/national or local reporting requirements.	
Methods and materials for	Pick up and arrange disposal without creating dust. Sweep up and	
containment and cleaning up	place in suitable, closed containers for disposal. Clean surfaces	
	thoroughly with water to remove residual contamination. Dispose of all	
	waste and cleanup materials in accordance with regulations.	

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
Sodium Hydroxide	2 mg/m ³	CEIL	ACGIH
	2 mg/m ³	PEL	OSHA
	2 mg/m ³	CEIL	NIOSH

TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

Personal Protection

Eyes	Wear chemical safety glasses or goggles.	
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.	
Skin	Wear nitrile or rubber gloves, apron or lab coat.	
Other	Not Available	

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Not Available
Odor	Not Available
Odor threshold	Not Available
pH	13.5
Melting point/freezing point	323°C (613.4°F)
Initial boiling point and boiling range	1388°C (2530.4°F)
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	< 24 hPa (< 18 mmHg) at 20°C (68°F)
	4 hPa (3 mmHg) at 37°C (99°F)
Vapor density	1.38 (Air = 1.0)
Density	2.13 (Water = 1)
Solubility (ies)	Easily soluble in cold water.
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Heat is evolved when solid material is dissolved in water,
	therefore cold water and caution must be used for this process.
Incompatible Materials	Strong oxidizing agents, strong acids, organic materials.
Hazardous Decomposition Products	Sodium oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Sodium Hydroxide

Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	Not Available

Carcinogenicity

IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Irritation, redness, itchiness.
Eyes	Irritation, redness, watering eyes, itchiness.

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Respiratory	Irritation, coughing, wheezing. Material is extremely destructive to tissue of the mucous	
	membranes and upper respiratory tract	
Ingestion Irritation, nausea, vomiting, diarrhea.		

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Target Organ(s)	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Sodium Hydroxide

Aquatic Vertebrate	rtebrate LC50 - Gambusia affinis (Mosquito fish) - 125 mg/l - 96 h	
Aquatic Invertebrate	Immobilization EC50 - Daphnia - 40.38 mg/l - 48 h	
Terrestrial Not Available		

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container or residue.
Product	Users should review their operations in terms of the applicable federal/national or
Containers	local regulations and consult with appropriate regulatory agencies if necessary
	before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	UN1823, Sodium hydroxide, solid, 8, pg II
TDG	UN1823, SODIUM HYDROXIDE, SOLID, 8, PG II
IMDG	UN1823, SODIUM HYDROXIDE, SOLID, 8, PG II
Marine Pollutant	No
IATA/ICAO	UN1823, Sodium hydroxide, solid, 8, pg II

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA Active inventory.
DSL / NDSL	All ingredients are listed on the DSL inventory.

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California Proposition 65	Not Listed
Rhode Island: Hazardous Substance List	Listed: Sodium Hydroxide
Massachusetts: Toxic or Hazardous Substance List,	Not Listed
Right to Know	
Pennsylvania: Hazardous Substance List	Listed: Sodium Hydroxide
New Jersey: Right to Know Hazardous Substance	Listed: Sodium Hydroxide
List	·
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Acute Health Hazard.
SARA 312	Acute Health Hazard.
SARA 313	Not Listed
WHMIS Canada	Class E: Corrosive material.

16. OTHER INFORMATION

Revision	Date
Original	03/20/2019
Revision 1	04/04/2022

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