



SHOPBVV.COM

Safety Data Sheet

CAUSTIC SODA (High Purity Sodium Hydroxide 99%)

Revision Date: 5/2/2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name High Purity Sodium Hydroxide 99%

Recommended use of the chemical and restrictions on use

Recommended use Industrial chemical

Manufacturer or supplier's details

Company BVV
Address 1251 Frontenac Rd.
STE 150
Naperville IL 60563

Emergency telephone number:

Transport North America: CHEMTEL (1-800-255-3924)

Additional Information:

Email: Support@shopbv.com
Office Phone : 1-331-281-0154
Website: www.shopbv.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Corrosive to metals	Category 1
Acute toxicity (Oral)	Category 3
Acute toxicity (Dermal)	Category 4
Skin corrosion	Category 1A
Serious eye damage	Category 1
Specific target organ toxicity - single exposure	Category 3 (Respiratory system)

GHS label elements

Hazard pictograms



Signal word

Danger

Hazard statements

H290 May be corrosive to metals.
H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary statements

Prevention:
P234 Keep only in original container.
P260 Do not breathe dust or mist.



SHOPBVV.COM

Safety Data Sheet

CAUSTIC SODA (High Purity Sodium Hydroxide 99%)

Revision Date: 5/2/2023

P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 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/ doctor.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P406 Store in corrosive resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
1310-73-2	Sodium hydroxide	90 - 100
497-19-8	Sodium carbonate	0 - 5
7647-14-5	Sodium chloride (NaCl)	0 - 5

Any Concentration shown as a range is due to batch variation.

Synonyms

CAUSTIC SODA BEADS; CAUSTIC SODA FLAKES;
CAUSTIC SODA PELLETS; SODIUM HYDROXIDE,

SECTION 4. FIRST AID MEASURES

General advice

Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.



SHOPBVV.COM

Safety Data Sheet

CAUSTIC SODA (Sodium Hydroxide 99%)

Revision Date: 5/2/2023

If inhaled	Do not leave the victim unattended. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. Oxygen or artificial respiration if needed.
In case of skin contact	Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	Take victim immediately to hospital. Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Notes to physician	Take victim immediately to hospital. Treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	Use an extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	High volume water jet Water
Specific hazards during fire-fighting	Do not allow run-off from fire fighting to enter drains or water courses. Heat generated when contacted with water may raise the temperature of combustible materials to above their autoignition temperature thereby causing combustion. In emergency situations, water and/or water-based foam can be used; the amount should be large enough to overcome heat and acid build-up. The use of water should be based on a careful evaluation by a knowledgeable person.
Hazardous combustion products	Sodium oxides
Specific extinguishing methods	Use water spray to cool unopened containers.
Further information	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment	Wear self-contained breathing apparatus for firefighting if needed.



SHOPBVV.COM

Safety Data Sheet

CAUSTIC SODA (High Purity Sodium Hydroxide 99%)

Revision Date: 5/2/2023

for firefighters

essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.

Environmental precautions

Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up

Neutralise with acid.
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion

Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling

Avoid formation of respirable particles.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1310-73-2	Sodium hydroxide	C	2 mg/m3	ACGIH
		C	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z-1
		C	2 mg/m3	OSHA PO
		C	2 mg/m3	CAL PEL

Personal protective equipment

Respiratory protection

No personal respiratory protective equipment normally required.



SHOPBVV.COM

Safety Data Sheet

CAUSTIC SODA (High Purity Sodium Hydroxide 99%)

Revision Date: 5/2/2023

Hand protection	In the case of dust or aerosol formation use respirator with an approved filter.
Remarks	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	Dust impervious protective suit Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	solid
Colour	colourless, white
Odour	odorless
Odour Threshold	No data available
pH	13 @0.5%
Freezing Point (Melting point/freezing point)	323 °C (613 °F)
Boiling Point (Boiling point/boiling range)	1,388 °C (2,530 °F)
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	Not applicable
Lower explosion limit	Not applicable
Vapour pressure	< 0.001 mmHg @ 20 °C (68 °F)
Relative vapour density	No data available
Relative density	2.13 @25 °C (77 °F)
Density	No data available
Solubility(ies)	
Water solubility	1,110 g/1 completely soluble
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Thermal decomposition	No data available

SECTION 10. STABILITY AND REACTIVITY



SHOPBVV.COM

Safety Data Sheet

CAUSTIC SODA (High Purity Sodium Hydroxide 99%)

Revision Date: 5/2/2023

Reactivity	Exothermic reaction with acids.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Gives off hydrogen by reaction with metals. Heat is generated when mixed with water. Spattering and boiling can result. A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling creating a hazard due to splashing or splattering of hot material.
Conditions to avoid	Heat
Incompatible materials	Exposure to moisture Alkalis Formaldehyde Metals Nitriles Organic materials phosphorus Reducing agents Strong acids Strong oxidizing agents water Zinc
Hazardous decomposition products	Sodium oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity Assessment: The component/mixture is toxic after single ingestion.

Acute dermal toxicity Assessment: The component/mixture is moderately toxic after single contact with skin.

Components:

1310-73-2:

Acute oral toxicity LD50 (Rabbit): 325 mg/kg

Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Components:

1310-73-2:

Species: Rabbit



SHOPBVV.COM

Safety Data Sheet

CAUSTIC SODA (High Purity Sodium Hydroxide 99%)

Revision Date: 5/2/2023

Result: Causes severe burns.

Serious eye damage/eye irritation

Product:

Remarks: Risk of serious damage to eyes.

Components:

1310-73-2:

Species: Rabbit

Result: Risk of serious damage to eyes.

497-19-8:

Species: Rabbit

Result: Irritating to eyes.

Germ cell mutagenicity

Components:

7647-14-5:

Genotoxicity in vitro

Test Type: Mammalian cell gene mutation assay

Species: mouse lymphoma cells

Metabolic activation: Without metabolic activation

Result: positive

Carcinogenicity

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

STOT - single exposure

Product:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Aspiration toxicity

Product:

Corrosive to the respiratory tract.



SHOPBVV.COM

Safety Data Sheet

CAUSTIC SODA (High Purity Sodium Hydroxide 99%)

Revision Date: 5/2/2023

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential

Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A+ B).

Additional ecological information

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922

Contaminated packaging

Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.



SHOPBVV.COM

Safety Data Sheet

CAUSTIC SODA (Sodium Hydroxide 99%)

Revision Date: 5/2/2023

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):

UN1823, Sodium hydroxide, solid, 8, II

IATA (International Air Transport Association):

UN1823, Sodium hydroxide, solid, 8, II

IMDG (International Maritime Dangerous Goods):

UN1823, SODIUM HYDROXIDE, SOLID, 8, II

SECTION 15. REGULATORY INFORMATION

WHMIS Classification D1B: Toxic Material Causing Immediate and Serious Toxic Effects
E: Corrosive Material

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium hydroxide	1310-73-2	1000	1000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards Corrosive to metals
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)
Acute toxicity (any route of exposure)

SARA 302 No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

1310-73-2 Sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:



SHOPBVV.COM

Safety Data Sheet

CAUSTIC SODA (Sodium Hydroxide 99%)

Revision Date: 5/2/2023

1310-73-2 Sodium hydroxide

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

1310-73-2 Sodium hydroxide 90 - 100 %

Pennsylvania Right To Know

1310-73-2 Sodium hydroxide 90 - 100 %

New Jersey Right To Know

1310-73-2 Sodium hydroxide 90 - 100 %

497-19-8 Sodium carbonate 0- 5 %

7647-14-5 Sodium chloride (NaCl) 0- 5 %

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA	On TSCA Inventory
DSL	All components of this product are on the Canadian DSL
AICS	On the inventory, or in compliance with the inventory
NZIoC	Not in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory



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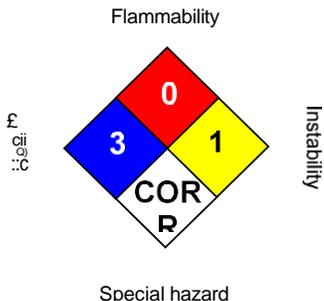
Safety Data Sheet

CAUSTIC SODA (Sodium Hydroxide 99%)

Revision Date: 5/2/2023

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1

0 = not significant, 1 =Slight,
 2 = Moderate, 3 = High
 4 =Extreme, *=Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date 10/05/2022

Legacy SDS: 100000041439

Material number:

16187854, 16181036, 16174564, 16058121, 16161482, 16058120, 770038, 123912, 104219, 102821, 171903, 128713, 102701, 70909, 102197, 54074, 85745, 102215, 85812, 70037, 102697, 86334, 52987, 102130, 122166, 504307, 20143, 54468, 550293, 104369, 75486, 71803, 56947, 16161484, 16147083, 16137075, 16144738, 16161485, 16155800, 16154572, 16154395, 16153167, 16149566, 16147084, 16143736, 16137714, 556610, 56305, 16151687, 16152292, 16142055, 16138329, 16138328, 16041698, 613716, 16170625, 16162065, 16156828

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect



SHOPBVV.COM

Safety Data Sheet

CAUSTIC SODA (Sodium Hydroxide 99%)

Revision Date: 5/2/2023

			I Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		