

425-889-3400

SAFETY DATA SHEET

1. Identification

Product identifier: - CAUSTIC SODA 25 - 28%

Other means of identification		
Synonyms:	Sodium Hydroxide	
CAS NUMBERS:	1310-73-2	
SDS number:	00010000085	
a common ded use and restriction on use		

Recommended use and restriction on use

Recommended use: Reserved for industrial and professional use.

Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Univar

3075 Highland Pkwy STE 200

Downers Grove, IL 60515

425-889-3400

Emergency telephone number:For emergency assistance Involving chemicals

call CHEMTREC day or night at: 1-800-424-9300. CHEMTREC INTERNATIONAL Tel# 703-527-3887

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation	Category 1A

Serious Eye Damage/Eye Irritation	Category 1
Environmental HazardsAcute	Category 3
hazards to the aquatic environment	

Label Elements

Hazard Symbol

Version: 1.1 Revision Date: 03/15/2018



Signal Word	Danger
Hazard Statement	Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life.
Precautionary Statements	
Prevention	Do not breathe dust or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.
Response	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse.
Storage	Store locked up.
Disposal	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product

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characteristics at time of disposal.

Other hazards which do not result in GHS classification

None.

3. Composition/information on ingredients

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Sodium hydroxide		1310-73-2	>=25 - <=28%
Water		7732-18-5	>=72 - <=75%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. **Composition Comments:**The components are not hazardous or are below required disclosure limits.

4. First-aid measures

General information:	CAUTION! First aid personnel must be aware of own risk during rescue!
Ingestion:	Call a physician or poison control center immediately. Rinse mouth. Never
	give liquid to an unconscious person. Do not induce vomiting without
	advice from poison control center.
Inhalation:	Call a physician or poison control center immediately. If breathing stops,
	provide artificial respiration. Move to fresh air. If breathing is difficult, give
	oxygen.
Skin Contact:	Call a physician or poison control center immediately. Immediately flush
	with plenty of water for at least 15 minutes while removing contaminated
	clothing and shoes. Destroy or thoroughly clean contaminated shoes.
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:	No data available.
Indication of immediate me	dical attention and special treatment needed
Treatment:	Symptoms may be delayed.



5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted. **Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media:	Use: Powder. In case of fire in the surroundings: all extinguishing agents allowed.		
Unsuitable extinguishing media:	No data available.		
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for firefighters			
Special fire fighting procedures:	No data available.		
Special protective equipment for	Self-contained breathing apparatus and full protective clothing must be		
fire-fighters:	worn in case of fire.		
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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep unauthorized personnel away. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate
	protective clothing. Keep unauthorized personnel away.
Methods and material for	Absorb spillage with non-combustible, absorbent material. Dike for later
containment and cleaning up:	disposal.
Notification Procedures:	Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if
	safe to do so. Do not contaminate water sources or sewer.
7. Handling and storage	

Precautions for safe handling:Do not get in eyes. Wash hands thoroughly after handling. Do not get in
eyes, on skin, on clothing. Use personal protective equipment as required.Conditions for safe storage,
including anyStore locked up.

incompatibilities:



8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
Sodium hydroxide	Ceiling	2 mg/m3	US. Tennessee. OELs. Occupational
			Exposure Limits, Table Z1A (06 2008)
Sodium hydroxide -	ST ESL	20 μg/m3	US. Texas. Effects Screening Levels
Particulate.			(Texas Commission on Environmental
			Quality) (02 2013)
	AN ESL	2 μg/m3	US. Texas. Effects Screening Levels
			(Texas Commission on Environmental
			Quality) (02 2013)
Sodium hydroxide	Ceiling	2 mg/m3	US. California Code of Regulations,
			Title 8, Section 5155. Airborne
			Contaminants (02 2012)
	Ceiling	2 mg/m3	US. ACGIH Threshold Limit Values (03
			2016)
	Ceil_Tim	2 mg/m3	US. NIOSH: Pocket Guide to Chemical
	е		Hazards (2010)
	PEL	2 mg/m3	US. OSHA Table Z-1 Limits for Air
			Contaminants (29 CFR 1910.1000)
			(03 2016)
	Ceiling	2 mg/m3	US. OSHA Table Z-1-A (29 CFR
			1910.1000) (1989)

Appropriate Engineering No data available. Controls



Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required. 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. Practice good housekeeping. Provide easy access to water supply and eye wash facilities. 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. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Eye/face protection:	Use personal protective equipment as required. Wear goggles/face shield. Wear a full-face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield.
Skin Protection	
Hand Protection:	No data available.
Other:	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Do not get in eyes. Observe good industrial hygiene practices. Wash contaminated clothing before reuse. Do not get this material in contact with skin. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Physical state:	liquid
Form:	No data available.
Color:	Colorless
Odor:	Odorless
Odor threshold:	No data available.
pH:	14
Melting point/freezing point:	-18 - 0 °C 0 - 32 °F
Initial boiling point and boiling range: SDS_US - 000100000085	115 °C

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Flash Point:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explo	osive limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	1.236 - 1.309 (20 °C)
Solubility(ies)	
Solubility in water:	Miscible with water.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous	No data available.
reactions:	
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition	No data available.
Products:	
11. Toxicological information	1

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion:	No data available.
Inhalation:	No data available.
Skin Contact:	No data available.



Eye contact:	No data available.	
, Information on toxicological eff	ects	
Acute toxicity (list all possible routes of exposure)		
Oral		
Product:	No data available.	
Dermal		
Product:	No data available.	
Inhalation		
Product:	No data available.	
Repeated dose toxicity		
Product:	No data available.	
Skin Corrosion/Irritation		
Product:	No data available.	
Serious Eye Damage/Eye Irritat	ion	
Product:	No data available.	
Respiratory or Skin Sensitizatio	n	
Product:	No data available.	
Carcinogenicity		
Product:	No data available.	
	Evaluation of Carcinogenic Risks to Humans:	
No carcinogenic components identified		
No carcinogenic compone		
US. National Toxicology F	Program (NTP) Report on Carcinogens:	
US. National Toxicology P No carcinogenic compone	Program (NTP) Report on Carcinogens: ents identified	
US. National Toxicology P No carcinogenic compone US. OSHA Specifically Reg	Program (NTP) Report on Carcinogens: ents identified gulated Substances (29 CFR 1910.1001-1050):	
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US. National Toxicology P No carcinogenic compone US. OSHA Specifically Reg No carcinogenic compone Germ Cell Mutagenicity In vitro Product: In vivo Product: Reproductive toxicity Product: Specific Target Organ Toxicity -	Program (NTP) Report on Carcinogens: ents identified gulated Substances (29 CFR 1910.1001-1050): ents identified No data available. No data available. Single Exposure No data available.	
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US. National Toxicology P No carcinogenic compone US. OSHA Specifically Reg No carcinogenic compone Germ Cell Mutagenicity In vitro Product: In vivo Product: Reproductive toxicity Product: Specific Target Organ Toxicity - Product: Specific Target Organ Toxicity - Product:	Program (NTP) Report on Carcinogens: ents identified gulated Substances (29 CFR 1910.1001-1050): ents identified No data available. No data available. Single Exposure No data available. Repeated Exposure	
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12. Ecological information

Ecotoxicity: Acute hazards to the aquatic environment:		
Fish Product:	No data available.	
Specified substance(s):		
Sodium hydroxide	LC 50 (Western mosquitofish (Gambusia affinis), 24 h): 125 mg/l Mortality LC 50 (Guppy (Poecilia reticulata), 24 h): 145 mg/l Mortality LC 50 (Western mosquitofish (Gambusia affinis), 48 h): 125 mg/l Mortality LC 50 (Goldfish (Carassius auratus), 24 h): 160 mg/l Mortality 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 LC 50 (Cockle (Cerastoderma edule), 48 h): 330 - 1,000 mg/l Mortality LC 50 (Common shrimp, sand shrimp (Crangon crangon), 48 h): 33 - 100 mg/l Mortality	
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:	No data available.	
BOD/COD Ratio		
Product:	No data available.	
Bioaccumulative potential		
Bioconcentration Factor (BCF)		
Product:	No data available.	
Partition Coefficient n-octano	l / water (log Kow)	
Product:	No data available.	
Mobility in soil:	No data available.	
Known or predicted distribution to environmental compartments		



Sodium hydroxide	No data available.		
Water	No data available.		
Known or predicted distribution to environmental compartments			
Sodium hydroxide	No data available.		
13. Disposal consideration	S		
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws.		
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.		

14. Transport information

DOT	
UN Number:	UN 1824
UN Proper Shipping Name:	Sodium hydroxide solution
Transport Hazard Class(es)	
Class:	8
Label(s):	8
Packing Group:	II
Marine Pollutant:	Not regulated.
Special precautions for user:	-
IMDG	
UN Number:	UN 1824
UN Proper Shipping Name:	SODIUM HYDROXIDE SOLUTION
Transport Hazard Class(es)	
Class:	8
Label(s):	8
EmS No.:	F-A, S-B
Packing Group:	II
Marine Pollutant:	Not regulated.



Special precautions for user:	-			
ΙΑΤΑ				
UN Number:	UN 1824			
Proper Shipping Name:	Sodium hydroxide solution			
Transport Hazard Class(es):				
Class:	8			
Label(s):	8			
Packing Group:	II			
Environmental Hazards	Not regulated.			
Special precautions for user:	-			
Other information				
Passenger and cargo aircraft:	Allowed.			
Cargo aircraft only:	Allowed.			
15. Regulatory information				
None present or none present in regulated quantities. CERCLA Hazardous Substance List (40 CFR 302.4): Sodium hydroxide Reportable quantity: 1000 lbs. Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories X Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating SARA 302 Extremely Hazardous Substance None present or none present in regulated quantities. SARA 304 Emergency Release Notification Chemical Identity RQ Sodium hydroxide 1000 lbs. SARA 311/312 Hazardous Chemical Chemical Identity Threshold Planning Quantity				
Chemical Identity Thre	shold Planning Quantity			
Water	500 lbs			
Sodium hydroxide	500 lbs			
SARA 313 (TRI Reporting)				
None present or none pres	ent in regulated quantities.			
Clean Water Act Section 311 Hazardou	is Substances (40 CFR 117.3)			
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

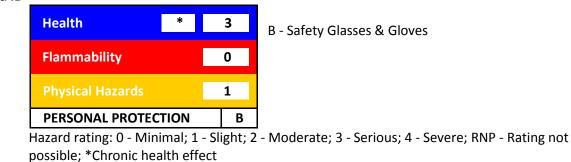
US. California Proposition 65 No ingredient regulated by CA Prop 65 present. US. New Jersey Worker and Community Right-to-Know Act Sodium hydroxide Listed US. Massachusetts RTK - Substance List Sodium hydroxide Listed US. Pennsylvania RTK - Hazardous Substances Sodium hydroxide Listed US. Rhode Island RTK Sodium hydroxide Listed



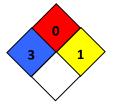
Inventory Status: Australia AICS: Canada DSL Inventory List: EINECS, ELINCS or NLP: Japan (ENCS) List: China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI): Philippines PICCS: US TSCA Inventory: New Zealand Inventory of Chemicals: Mexico INSQ: On or in compliance with the inventory On or in compliance with the inventory

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

HMIS Hazard ID



NFPA Hazard ID



Flammability Health Reactivity Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possibleIssue Date:03/15/2018Revision Date:No data available.Version #:1.1Further Information:No data available.

For Additional Information contact SDS Coordinator during business hours, Pacific time: (425) 889-3400

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