



Univar  
3075 Highland Pkwy STE 200  
Downers Grove, IL 60515  
425-889-3400

## SAFETY DATA SHEET

### 1. Identification

**Product identifier:** CAUSTIC SODA 25 - 28%

**Other means of identification**

**Synonyms:** Sodium Hydroxide

**SDS number:** 000100000085

**Recommended use and restriction on use**

**Recommended use:** Not available.

**Restrictions on use:** Not known.

**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**

Acute toxicity (Oral) Category 4

Skin corrosion/irritation Category 1A

Serious eye damage/eye irritation Category 1

**Environmental hazards**Acute hazards Category 3  
to the aquatic environment

**Label elements**

**Hazard symbol**





Univar USA Inc Safety Data Sheet

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SDS No:

Version No:

Order No:

3075 Highland Pkwy, Ste 200, Downers Grove, IL 60515  
(425) 889 3400

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Emergency Assistance

For emergency assistance involving chemicals call  
Chemtrec - (800) 424-9300

Version: 1.0  
Revision date: 04/28/2015



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<b>Signal word</b>	Danger
<b>Hazard statement</b>	Corrosive. Harmful if swallowed. Causes severe skin burns and eye damage.
<b>Precautionary statement</b>	
<b>Prevention</b>	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust or mists. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response</b>	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: Call a POISON CENTER/doctor/ if you feel unwell. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see this label). Wash contaminated clothing before reuse.
<b>Storage</b>	Store in a closed container. Keep container tightly closed. Store in a well-ventilated place. Store in a dry place. Store locked up.
<b>Disposal</b>	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Other hazards which do not result in GHS classification</b>	None.

Version: 1.0  
Revision date: 04/28/2015



**3. Composition/information on ingredients**

**Substances**

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
Sodium hydroxide		1310-73-2	25%
Water		7732-18-5	75%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**4. First-aid measures**

**General information:** CAUTION! First aid personnel must be aware of own risk during rescue!

**Ingestion:** Do NOT induce vomiting. Never give liquid to an unconscious person. Get medical attention immediately.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped. Get medical attention immediately.

**Skin contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Eye contact:** If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** No data available.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** No data available.

**5. Fire-fighting measures**

**General fire hazards:** No data available.

**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:** No data available.

Version: 1.0  
Revision date: 04/28/2015



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**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** No data available.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Keep unauthorized personnel away.

**Methods and material for containment and cleaning up:** Absorb spillage with non-combustible, absorbent material. Dike for later disposal.

**7. Handling and storage**

**Precautions for safe handling:** Use personal protective equipment as required. Use only with adequate ventilation. Container must be kept tightly closed.

**Conditions for safe storage, including any incompatibilities:** No data available.

Version: 1.0  
 Revision date: 04/28/2015



**8. Exposure controls/personal protection**

**Control parameters**

**Occupational exposure limits**

Chemical identity	Type	Exposure Limit values	Source
Sodium hydroxide	Ceiling	2 mg/m3	US. ACGIH Threshold Limit Values (03 2013)
	Ceil_Tim e	2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceiling	2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	2 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
Sodium hydroxide - Particulate.	ST ESL	20 µg/m3	US. Texas. Effects Screening Levels (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)

**Appropriate engineering controls** No data available.

**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.

**Eye/face protection:** Use personal protective equipment as required. Wear goggles/face shield.

**Skin protection**

**Hand protection:** No data available.

**Other:** No data available.

Version: 1.0  
Revision date: 04/28/2015



Respiratory protection: No data available.  
Hygiene measures: No data available.

### 9. Physical and chemical properties

Physical state: Liquid  
Form: No data available.  
Color: No data available.  
Odor: No data available.  
Odor threshold: No data available.  
pH: 14  
Melting point/freezing point: -25 °C  
Initial boiling point and boiling range: 116 °C  
Flash Point: No data available.  
Evaporation rate: No data available.  
Flammability (solid, gas): No data available.  
Upper/lower limit on flammability or explosive 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: No data available.  
Solubility(ies)  
Solubility in water: No data available.  
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.

Version: 1.0  
Revision date: 04/28/2015



## 10. Stability and reactivity

Reactivity:	No data available.
Chemical stability:	No data available.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No data available.
Incompatible materials:	No data available.
Hazardous decomposition products:	No data available.

## 11. Toxicological information

### 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 effects

#### Acute toxicity (list all possible routes of exposure)

##### Oral

Product: ATEmix (): 325 mg/kg

##### 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 irritation

Product: No data available.

##### Respiratory or skin sensitization

Product: No data available.

##### Carcinogenicity

Product: No data available.



Version: 1.0  
Revision date: 04/28/2015



**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified

**Germ cell mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific target organ toxicity - single exposure**

**Product:** No data available.

**Specific target organ toxicity - repeated exposure**

**Product:** No data available.

**Aspiration hazard**

**Product:** No data available.

**Other effects:** No data available.

**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 (Goldfish (*Carassius auratus*), 24 h): 160 mg/l Mortality LC 50 (Bony fish superclass (*Osteichthyes*), 48 h): 33 - 100 mg/l Mortality LC 50 (Western mosquitofish (*Gambusia affinis*), 48 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 (Common shrimp, sand shrimp (*Crangon crangon*), 48 h): 33 - 100 mg/l Mortality LC 50 (Cockle (*Cerastoderma edule*), 48 h): 330 -

Version: 1.0  
Revision date: 04/28/2015



1,000 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-octanol / 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**

Water No data available.

**13. Disposal considerations**

Disposal instructions: No data available.

Contaminated packaging: No data available.

**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.

Version: 1.0  
Revision date: 04/28/2015



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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: —

**IATA**

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

**US federal regulations US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

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**

Not listed.

Version: 1.0  
Revision date: 04/28/2015



**SARA 302 Extremely hazardous substance**

None present or none present in regulated quantities.

**SARA 304 Emergency release notification**

<b>Chemical identity</b>	<b>RQ</b>
Sodium hydroxide	1000 lbs.

**SARA 311/312 Hazardous chemical**

<b>Chemical identity</b>	<b>Threshold Planning Quantity</b>
Sodium hydroxide	500 lbs

**SARA 313 (TRI reporting)**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous 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

Version: 1.0  
 Revision date: 04/28/2015



<b>Inventory Status:</b> Australia AICS:	Not in compliance with the inventory.
Canada DSL Inventory List:	Not in compliance with the inventory.
EU EINECS List:	On or in compliance with the inventory
EU ELINCS List:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
EU No Longer Polymers List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	Not in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

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

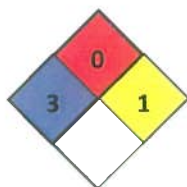
**HMIS Hazard ID**

Health	* 3
Flammability	0
Physical hazards	1
<b>PERSONAL PROTECTION</b>	<b>B</b>

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; \*Chronic health effect

**NFPA Hazard ID**



- Flammability
- Health
- Reactivity
- Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

**Issue date:** 04/28/2015  
**Revision date:** No data available.  
**Version #:** 1.0  
**Further information:** No data available.

Version: 1.0  
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## Univar USA Inc Safety Data Sheet

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

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