

## Univar USA Inc Safety Data Sheet

SDS No:	
Version No:	003 2015-09-24
Order No:	

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

**Emergency Assistance** 

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



# **SAFETY DATA SHEET**

## 1. Identification

Product identifier: - CAUSTIC SODA 50%

Other means of identification

Synonyms: Sodium Hydroxide

SDS number: 000100000088

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. ISSUE DATE:2015-09-23 Annotation:

SDS NO:10000088 VERSION:003 2015-09-24

Version: 1.4

Revision date: 09/23/2015



Signal word Danger

**Hazard statement** Corrosive.

Harmful if swallowed.

Causes severe skin burns and eye damage.

**Precautionary statement** 

**Prevention** Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after

handling. Wear protective gloves/protective clothing/eye protection/face

protection. Do not eat, drink or smoke when using this product.

**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: 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.

Storage Store in a closed container. Keep container tightly closed. Store in a well-

ventilated place. Store in a dry place. Store locked up.

**Disposal** 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.

Other hazards which do not result in GHS classification

None.

SDS NO:10000088 VERSION:003 2015-09-24

Annotation:

Version: 1.4

Revision date: 09/23/2015



## 3. Composition/information on ingredients

#### **Substances**

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
Sodium hydroxide		1310-73-2	>=48 - <=52%
Water		7732-18-5	>=48 - <=52%
Sodium Chloride		7647-14-5	>=0 - <=5%

<sup>\*</sup> 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

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: Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

Use: Powder. In case of fire in the surroundings: all extinguishing agents

**Unsuitable extinguishing** 

Avoid water in straight hose stream; will scatter and spread fire.

media:

media:

3/13 SDS US - 000100000088

Revision date: 09/23/2015



Specific hazards arising from the

Fire or excessive heat may produce hazardous decomposition products.

chemical:

Heat may cause the containers to explode.

Special protective equipment and precautions for firefighters

**Special fire fighting** 

No data available.

procedures:

Special protective equipment for

fire-fighters:

Avoid breathing fire vapors. Avoid water in straight hose stream; will

scatter and spread fire. Move container from fire area if it can be done

without risk.

## 6. Accidental release measures

Personal precautions, protective

equipment and emergency

procedures:

Use personal protective equipment. Keep unauthorized personnel away.

Do not touch or walk through spilled material. Absorb spillage with non-

**containment and cleaning up:** combustible, absorbent material. Dike for later disposal.

## 7. Handling and storage

Methods and material for

**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

Keep container tightly closed. Store in appropriate chemical storage area. Keep in a cool, well-ventilated place. Store in corrosive resistant container

**incompatibilities:** with a resistant inner liner.

Revision date: 09/23/2015



## 8. Exposure controls/personal protection

### **Control parameters**

Occupational exposure limits

Chemical identity	Туре	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 21A (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

Adequate ventilation should be provided so that exposure limits are not

controls exceeded. Eye washes and showers for emergency use.

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: Chemical resistant gloves. Other: Chemical resistant clothing · ii ii io ia ii o ii

Version: 1.4

Revision date: 09/23/2015



**Respiratory protection:** In case of inadequate ventilation use suitable respirator.

**Hygiene measures:** When using do not eat, drink or smoke. Wash thoroughly after handling.

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.

## 9. Physical and chemical properties

Physical state: Liquid
Form: Liquid
Color: Colorless
Odor: Odorless

Odor threshold: No data available.

pH: 14

Melting point/freezing point:  $10 - 12 \,^{\circ}\text{C}$ Initial boiling point and boiling range:  $105 - 140 \,^{\circ}\text{C}$ 

Flash Point:

Evaporation rate:

No data available.

No data available.

Flammability (solid, gas):

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

Vapor pressure: 1.333 hPa

Vapor density:

Relative density:

No data available.

No data available.

Solubility(ies)

Solubility in water:

Solubility (other):

No data available.

SDS NO:10000088 VERSION:003 2015-09-24

Annotation:

Version: 1.4

Revision date: 09/23/2015



Viscosity: No data available.

## 10. Stability and reactivity

**Reactivity:** No data available.

**Chemical stability:** Material is stable under normal conditions.

**Possibility of hazardous** This product may generate hydrogen gas. Keep away from ignition source.

reactions: Empty container after use should be stored in separate area, and be

disposed after degassing completely.

**Conditions to avoid:** No data available.

**Incompatible materials:** Avoid contact with acids and oxidizing substances.

**Hazardous decomposition** This product may generate hydrogen gas. Keep away from ignition source.

**products:** Empty container after use should be stored in separate area, and be

disposed after degassing completely.

## 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 (): 353.488372 mg/kg

Dermal

**Product:** 

Not classified for acute toxicity based on available data.

**Inhalation** 

**Product:** No data available.

Specified substance(s):

Sodium Chloride LC 50 (Rat, ): > 42 mg/l 2 (reliable with restrictions)

Repeated dose toxicity

**Product:** No data available.

Skin corrosion/irritation

**Product:** Causes skin burns.

Serious eye damage/eye irritation

**Product:** Causes serious eye damage. Causes severe eye burns.

Respiratory or skin sensitization

SDS NO:10000088 VERSION:003 2015-09-24

Annotation:

Version: 1.4

Revision date: 09/23/2015



**Product:** No data available.

Carcinogenicity

**Product:** No data available.

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

No data available. **Product:** 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

LC 50 (Bluegill Sunfish, 48 h): 1,294.6 mg/l **Product:** 

**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 -

1,000 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

SDS NO:10000088 VERSION:003 2015-09-24

Annotation:

Version: 1.4

Revision date: 09/23/2015



**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. Sodium chloride No data available.

Known or predicted distribution to environmental compartments

Water No data available.

## 13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority

requirements.

**Disposal instructions:** This material and/or its container must be disposed of as hazardous waste.

Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated packaging: No data available.

Revision date: 09/23/2015



## 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: –

**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

UNIVAR USA INC. ISSUE DATE:2015-09-23 Annotation:

SDS NO:10000088 VERSION:003 2015-09-24

Version: 1.4

Revision date: 09/23/2015



	.6	(20 077 4040 4004 4070)					
US federal regulations US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)							
None present or none present in							
CERCLA Hazardous Substance List	· ·						
Sodium hydroxide Reportable quantity: 1000 lbs.							
Superfund amendments and reau	thorization act of 1986 (SAR/	Α)					
Hazard categories							
Acute (Immediate) Chro	onic (Delayed) Fire	Reactive Pressure Generating					
SARA 302 Extremely hazardou							
None present or none	present in regulated quantiti	es.					
SARA 304 Emergency release	notification						
Chemical identity	RQ						
Sodium hydroxide	1000 lbs.						
SARA 311/312 Hazardous che	mical						
Chemical identity	Threshold Planning Quantity	<u>/</u>					
Sodium hydroxide		500 lbs					
Sodium Chloride		500 lbs					
SARA 313 (TRI reporting)							
	present in regulated quantiti						
Clean Water Act Section 311 Haza		-					
Sodium hydroxide	Reportable quantity: 1000 lb						
Clean Air Act (CAA) Section 112(r)		on (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 C	ommunity Right-to-Know Ac	t					
	Listed						
US. Massachusetts RTK - Subs	tance List						
Sodium hydroxide	Listed						
US. Pennsylvania RTK - Hazaro							
<b>/</b>	Listed						
US. Rhode Island RTK							
Sodium hydroxide	Listed						

Revision date: 09/23/2015



Not in compliance with the inventory. **Inventory Status:** Australia AICS: Canada DSL Inventory List: Not in compliance with the inventory. **EU EINECS List:** Not 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. Not in compliance with the inventory. Japan ISHL Listing: Japan Pharmacopoeia Listing: Not in compliance with the inventory.

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

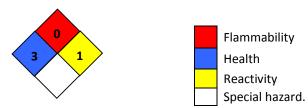
## **HMIS Hazard ID**



B - Safety Glasses & Gloves

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

#### **NFPA Hazard ID**



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

**Issue date:** 09/23/2015 **Revision date:** No data available.

Version #: 1.4

Further information: No data available.

# UNIVAR USA INC. ISSUE DATE:2015-09-23 Annotation:

SDS NO:10000088 VERSION:003 2015-09-24

Version: 1.4

Revision date: 09/23/2015



## Univar USA Inc Safety Data Sheet

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

#### Notice

Univar USA Inc. ("Univar") expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this SDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Univar sales office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Univar makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Univar's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process