

Bulk

APOTHECARY

Safety Data Sheet Sodium Hydroxide

SECTION 1: Identification

1.1 Product identifier

Product name	Sodium Hydroxide
Product number	chem-66
Brand	Bulk Apothecary

1.4 Supplier's details

Name	Bulk Apothecary
Address	115 Lena Dr Aurora OH 44202 United States
Telephone	1-888-728-7612
email	sales@bulkapothecary.com

1.5 Emergency phone number(s)

Domestic: 1-800-633-8253 International: 801-629-0667

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2B
- Substances and mixtures which, in contact with water, emit flammable gases, Cat. 3

2.2 GHS label elements, including precautionary statements

Pictogram



Hazard statement(s)

H315	Causes skin irritation
H320	Causes eye irritation
H261	In contact with water releases flammable gas

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Precautionary statement(s)

P264	Wash ... thoroughly after handling.
P280	Wear protective gloves/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water/...
P321	Specific treatment (see ... on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P231+P232	Handle under inert gas. Protect from moisture
P370+P378	In case of fire: Use ... to extinguish.
P402+P404	Store in a dry place. Store in a closed container.
P501	Dispose of contents/container to ...
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P232	Protect from moisture.
P234	Keep only in original container.
P270	Do not eat, drink or smoke when using this product.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Sodium hydroxide

Concentration	100 % (weight)
EC no.	215-185-5
CAS no.	1310-73-2
Index no.	011-002-00-6

- Skin corrosion/irritation, Cat. 1A

H314	Causes severe skin burns and eye damage
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SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid
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	physical strain. Depending on the victim's condition: doctor/hospital.
If inhaled	Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
In case of skin contact	Wipe off dry product from skin. Remove clothing before washing. Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.
In case of eye contact	Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist.
If swallowed	Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not give activated charcoal. Do not give chemical antidote. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.htm). Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Adapt extinguishing media to the environment for surrounding fires. Use foam or dry chemical. Do not use water.

5.3 Special protective actions for fire-fighters

Cool tanks/drums with water spray/remove them into safety. When cooling/extinguishing: no water in the substance. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Mark the danger area. Prevent dust cloud formation. Corrosion-proof appliances. Keep containers closed. Avoid ingress of water in the containers. Wash contaminated clothes. On contact with moisture/water: keep upwind. On contact with moisture/water: consider evacuation. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.

6.2 Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3 Methods and materials for containment and cleaning up

Collect the spill only if it is in a dry state. Wetted substance: cover with powdered limestone or dry sand, earth, vermiculite. Scoop solid spill into closing containers. Under controlled conditions: neutralize leftovers with dilute acid solution. Possible violent reaction if you

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neutralize. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid raising dust. Avoid contact of substance with water. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Use corrosionproof equipment. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry place away from direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Sodium hydroxide (CAS: 1310-73-2)

PEL (Inhalation): 2 mg/m³; USA (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): (C) 2 mg/m³; USA (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): (C) 2 mg/m³; USA (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

TLV® (Inhalation): (C) 2 mg/m³; USA (ACGIH)
OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Face shield. In case of dust production: protective goggles

Skin protection

Corrosion-proof clothing. In case of dust production: head/neck protection

Respiratory protection

dust mask with filter type P3.
High dust production: self-contained breathing apparatus

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	White Crystalline solid
Odor	Odourless
Odor threshold	
pH	14
Melting point/freezing point	323 °C
Initial boiling point and boiling range	1388 °C (1013.25 hPa)
Flash point	Not applicable
Evaporation rate	
Flammability (solid, gas)	
Upper/lower flammability limits	
Vapor pressure	< 0.1 hPa (20 °C)
Vapor density	
Relative density	2.13 (20 °C)
Solubility(ies)	Exothermically soluble in water. Soluble in ethanol. Soluble in methanol. Soluble in glycerol.
Partition coefficient: n-octanol/water	
Auto-ignition temperature	
Decomposition temperature	
Viscosity	0.53 mm ² /s (25 °C, 1 mol/l)
Explosive properties	
Oxidizing properties	

SECTION 10: Stability and reactivity

10.1 Reactivity

May be corrosive to metals. Absorbs the atmospheric CO₂. Violent to explosive reaction with (some) acids. Reacts violently with many compounds: heat release resulting in increased fire or explosion risk. Violent exothermic reaction with water (moisture): release of corrosive mist. Reacts exothermically on exposure to water (moisture) with combustible materials: risk of spontaneous ignition.

10.2 Chemical stability

Hygroscopic. Unstable on exposure to air.

10.3 Possibility of hazardous reactions

Reacts violently with acids. Reacts violently with water.

10.4 Conditions to avoid

Moisture. Incompatible materials

10.5 Incompatible materials

Water. Strong oxidizers. Strong acids. metals. combustible materials.

10.6 Hazardous decomposition products

Sodium oxide.

SECTION 11: Toxicological information

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Information on toxicological effects

Acute toxicity

Not classified

Skin corrosion/irritation

Causes serious skin damage. Possible laryngeal spasm/oedema.

Serious eye damage/irritation

Causes Corrosion of the eye tissue. Permanent eye damage.

Respiratory or skin sensitization

Dry/sore throat. Nausea. Abdominal pain. Blood in vomit. Difficulty in swallowing. Possible esophageal perforation. Burns to the gastric/intestinal mucosa. Bleeding of the gastrointestinal tract. Shock.

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

Aspiration hazard

Possible laryngeal spasm/oedema. Risk of lung oedema.

SECTION 12: Ecological information

Toxicity

Harmful to crustacea. Harmful to fishes. Groundwater pollutant. pH shift.

Bioaccumulative potential

Not bioaccumulative

SECTION 13: Disposal considerations

Disposal of the product

Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Should not be landfilled with household waste. Recycle/reuse. Dilute. Neutralize.

Other disposal recommendations

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

SECTION 14: Transport information

DOT (US)

UN Number: UN1823

Class: 8

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Packing Group: II
Proper Shipping Name: Sodium Hydroxide solid
Reportable quantity (RQ): 15kg
Marine pollutant: Yes
Poison inhalation hazard: Yes

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Massachusetts Right To Know Components

Chemical name: Sodium hydroxide
CAS number: 1310-73-2

New Jersey Right To Know Components

Common name: SODIUM HYDROXIDE
CAS number: 1310-73-2

Pennsylvania Right To Know Components

Chemical name: Sodium hydroxide
CAS number: 1310-73-2

SARA 302 Components

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

SARA 313 Components

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.

SARA 311/312 Hazards

Acute Health Hazard

California Prop. 65 Components

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

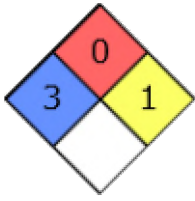
HMIS Rating

Sodium Hydroxide	
HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	

NFPA Rating

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SECTION 16: Other information

16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Bulk Apothecary be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Bulk Apothecary has been advised of the possibility of such damages.