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

Version: 1.1, Revision: 06/12/2019, Date of issue: 2019-04-26, p. 1 of 8
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

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

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

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

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
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
SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/form (physical state, color, etc.)</td>
<td>White Crystalline solid</td>
</tr>
<tr>
<td>Odor</td>
<td>Odourless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>14</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>323 °C</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>1388 °C (1013.25 hPa)</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
</tr>
<tr>
<td>Upper/lower flammability limits</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>&lt; 0.1 hPa (20 °C)</td>
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<tr>
<td>Vapor density</td>
<td>2.13 (20 °C)</td>
</tr>
<tr>
<td>Relative density</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>0.53 mm²/s (25 °C, 1 mol/l)</td>
</tr>
<tr>
<td>Explosive properties</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td></td>
</tr>
</tbody>
</table>

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

10.6 Hazardous decomposition products
Sodium oxide.

SECTION 11: Toxicological information
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

Carcinogenicity
Not classified

Reproductive toxicity
Not classified

Aspiration hazard
Possible laryngeal spasm/oedema. Risk of lung oedema.

SECTION 12: Ecological information

Toxicity

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

SECTION 14: Transport information

DOT (US)
UN Number: UN1823
Class: 8
Safety Data Sheet
Sodium Hydroxide

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

<table>
<thead>
<tr>
<th>Sodium Hydroxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH</td>
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<tr>
<td>3</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
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<tr>
<td>PHYSICAL HAZARD</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>PERSONAL PROTECTION</td>
</tr>
</tbody>
</table>

NFPA Rating
SECTION 16: Other information

16.1 Further information/disclaimer

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