1. IDENTIFICATION

Product identifier

Product code: S1302
Product Name: SODIUM HYDROXIDE, COARSE GRANULAR, TECHNICAL

Other means of identification

Synonyms: Caustic Soda
Soda Lye
Hydroxyde de sodium (French)
Hidróxido de sodio (Spanish)

CAS #: 1310-73-2
RTECS #: WB4900000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against: No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA  90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com
Emergency telephone number: Chemtrec 1-800-424-9300
Contact Person: Tom Tyner (USA - West Coast)
Contact Person: Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

<table>
<thead>
<tr>
<th>Acute toxicity - Dermal</th>
<th>Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 1 Sub-category A</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Corrosive to metals</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Label elements

Danger

Hazard statements
Causes severe skin burns and eye damage
Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Not available

Precautionary Statements - Prevention
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Keep only in original container

Precautionary Statements - Response
Immediately call a POISON CENTER or physician
Absorb spillage to prevent material damage
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
Call a POISON CENTER or physician if you feel unwell
Wash contaminated clothing before reuse
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage
Store locked up
Store in corrosive resistant/... container with a resistant inner liner

Precautionary Statements - Disposal
Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
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<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>100</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

First aid measures

Product code: S1302
Product name: SODIUM HYDROXIDE, COARSE GRANULAR, TECHNICAL

Page 2 / 13
General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician immediately.

Eye Contact: Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. Call a physician immediately.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If victim is conscious, give water or milk. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms
Severe skin and eye irritation or burns
Causes digestive (gastrointestinal) tract irritation
May cause gastrointestinal (digestive) tract burns
May cause abdominal pain, nausea, vomiting, diarrhea

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products: Sodium oxides.
Specific hazards: No information available.

Special Protective Actions for Firefighters

Specific Methods: No information available.

Product code: S1302
Product name: SODIUM HYDROXIDE, COARSE GRANULAR, TECHNICAL
**Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:**
Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Environmental precautions**
Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas.

#### Methods and material for containment and cleaning up

**Methods for containment**
Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up**
Use appropriate tools to put the spilled solid in a suitable waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid. Clean contaminated surface thoroughly.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Technical Measures/Precautions:**
Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

**Safe Handling Advice:**
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store in a segregated and approved area. Store away from incompatible materials.

**Incompatible Materials:**
- Oxidizing agents
- Reducing agents
- Acids
- Bases
- Aldehydes
- Metals
- Powdered metals
- Water

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**National occupational exposure limits**

---

**Product code:** S1302  
**Product name:** SODIUM HYDROXIDE, COARSE GRANULAR, TECHNICAL  
**Page:** 4 / 13
**United States**

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**Canada**

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**Australia and Mexico**

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</tr>
</tbody>
</table>

**Appropriate engineering controls**

**Engineering measures to reduce exposure:**

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

**Eye protection:** Goggles

**Skin and body protection:**
- Long sleeved clothing
- Gloves
- Chemical resistant apron

**Respiratory protection:**
- Effective dust mask. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:**
- Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- **Physical state:** Solid
- **Appearance:** Pellets. Flakes.
- **Color:** White.
- **Odor:** No information available.
- **Taste:** No information available.
- **Formula:** NaOH
- **Molecular/Formula weight (g/mole):** 40
- **Flammability (solid, gas):** No data available
- **Flashpoint (**°C/**°F):** No information available
- **Autoignition Temperature (**°C/**°F):** No information available
- **Lower Explosion Limit (%):** No information available

**Product code:** S1302

**Product name:** SODIUM HYDROXIDE, COARSE GRANULAR, TECHNICAL
10. STABILITY AND REACTIVITY

Reactivity
Sodium hydroxide + zinc metal dust causes ignition of the latter. Under proper conditions of temperature, pressure and state of division, it can ignite or react violently with acetaldehyde, ally alcohol, allyl chloride, benzene-1,4-diol, chlorine trifluoride, 1,2-dichloroethylene, nitroethane, nitromethane, nitroparaffins, nitropropane, cinnamaldehyde, 2,2-dichloro-3,3-dimethylbutane. Sodium hydroxide in contact with water may generate enough heat to ignite adjacent combustible materials. Phosphorous boiled with NaOH yields mixed phosphines which may ignite spontaneously in air. Sodium hydroxide and cinnamaldehyde + heat may cause ignition. Reaction with certain metals releases flammable and explosive hydrogen gas. Sodium hydroxide reacts to form explosive products with ammonia + silver nitrate. Benzene extract of allyl benzenesulfonate prepared from allyl alcohol, and benzene sulfonyl chloride in presence of aqueous sodium hydroxide, under vacuum distillation, residue darkened and exploded. Sodium Hydroxide + impure tetrahydrofuran, which can contain peroxides, can cause serious explosions. Dry mixtures of sodium hydroxide and sodium tetrahydroborate liberate hydrogen explosively at 230-270 deg. C. Sodium Hydroxide reacts with sodium salt of trichlorophenol + methyl alcohol + trichlorobenzene + heat to cause an explosion. Hygroscopic. Much heat is evolved when solid material is dissolved in water. Therefore cold water and caution must be used for this process. Generates considerable heat when a sodium hydroxide solution is mixed with an acid.Sodium hydroxide solution and octanol + diborane during a work-up of a reaction mixture of oxime and diborane in tetrahydrofuran is very exothermic, a mild explosion being noted on one occasion. Reactive with water, acids (mineral, non-oxidizing, e.g. hydrochloric, hydrofluororganic acid, muriatic acid, phosphoric), acids (mineral, oxidizing e.g. chromic acid, hypochlorous acid, nitric acid, sulfuric acid), acids (organic e.g. acetic acid, benzoic acid, formic acid, methanoic acid, oxalic acid), aldehydes (e.g. acetaldehyde, acrolein, chloral hydrate, formaldehyde), carbamates (e.g. carbamate, carbofuran), esters (e.g. butyl acetate, ethyl acetate, propyl formate), halogenated organics (dibromoethane, hexachlorobenzene, methyl chloride, trichloroethylene), isocyanates (e.g. methyl isocyanate), ketones (acetone, acetonophene, MEK, MIBK), acid chlorides, strong bases, strong oxidizing agents, strong reducing agents, flammable liquids, powdered metals and metals (i.e aluminum, tin, zinc, hafnium, raney nickel), metals (alkali and alkaline e.g. cesium, potassium, sodium), metal compounds (toxic e.g. beryllium, lead acetate, nickel carbonyl, tetraethyl lead), nitriles (e.g. potassium nitride, sodium nitride), nitriles (e.g. acetonitrile, methyl cyanide), nitro compounds (organic e.g. nitrobenzene, nitromethane), acetic anhydride, hydroquinone, chlorohydrin, chlorosulfonic acid, ethylene cyanohydrin, glyoxal, hydrosulfuric acid, oleum, propiolactone, acylnitrile, phosphorous pentoxide, chloroethanol, chloroform-methanol, tetrahydroborate, cyanogen azide, 1,2,4,5-tetrachlorobenzene, cinnamaldehyde. Reacts with formaldehyde hydroxide to yield formic acid, and hydrogen.

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Exposure to moisture. Exposure to water. Incompatible materials.

Incompatible Materials: Oxidizing agents Reducing agents

Product code: S1302 Product name: SODIUM HYDROXIDE, COARSE GRANULAR, TECHNICAL
Acids
Bases
Aldehydes
Metals
Powdered metals
Water

**Hazardous decomposition products:**
Sodium oxides.

**Other Information**
**Corrosivity:** No information available

**Special Remarks on Corrosivity:** Very caustic to aluminum and other metals in the presence of moisture

### 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Principal Routes of Exposure:**
Skin. Inhalation. Ingestion.

**Acute Toxicity**

**Component Information**

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<tr>
<th>Sodium Hydroxide</th>
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</thead>
<tbody>
<tr>
<td>CAS No</td>
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<tr>
<td>LD50/oral/rat</td>
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<td>LD50/dermal/rabbit</td>
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<td>LD50/dermal/rat</td>
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<td>LC50/inhalation/rat</td>
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<td>LC50/inhalation/mouse</td>
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<td><strong>Other LD50 or LC50 information</strong></td>
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**Product Information**

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<table>
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<tr>
<th>LD50/dermal/rabbit</th>
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<tr>
<td>Value - Acute Toxicity</td>
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<tr>
<th>LD50/dermal/rat</th>
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<tr>
<td>VALUE - Acute Tox</td>
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<table>
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<th>LC50/inhalation/rat</th>
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<tbody>
<tr>
<td>VALUE - Vapor</td>
</tr>
<tr>
<td>VALUE - Gas</td>
</tr>
<tr>
<td>VALUE - Dust/Mist</td>
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</tbody>
</table>

**Product code:** S1302
**Product name:** SODIUM HYDROXIDE, COARSE GRANULAR, TECHNICAL
**Page** 7 / 13
LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Severe skin irritation. Causes skin burns. May cause deep penetrating ulcers of the skin. Harmful in contact with skin.

Eye Contact: Severe eye irritation. Causes eye burns. May cause corneal damage.

Inhalation
Causes severe irritation of the respiratory tract and mucous membranes with coughing, burns, breathing difficulty, and possible coma. Irritation may lead to chemical pneumonitis, pneumoconiosis, fibrosis, and pulmonary edema. Can cause chemical burns to the respiratory tract and mucous membranes. It is a respiratory stimulant when inhaled at lower concentrations. It may also affect behavior/central nervous system (convulsions, seizures, ataxia, tremor), cardiovascular system (increase in blood pressure and pulse rate).

Ingestion
Causes severe gastrointestinal tract irritation and burns. Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause severe and permanent damage to the digestive tract. May cause perforation of the digestive tract. May cause corrosion and permanent destruction of the esophagus.

Aspiration hazard
No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity
No information available.

Sensitization:
No information available.

Mutagenic Effects:
No information available

Carcinogenic effects:
Not considered carcinogenic.

<table>
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<tr>
<th>Component</th>
<th>CAS No</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
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<th>OSHA HCS - Carcinogens</th>
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</table>

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

Reproductive toxicity
No data is available

Reproductive Effects: No information available

Developmental Effects: No information available

Teratogenic Effects: No information available

Product code: S1302

Product name: SODIUM HYDROXIDE, COARSE GRANULAR, TECHNICAL
Specific Target Organ Toxicity

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Target Organs:
Skin, Eyes, Respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Sodium Hydroxide - 1310-73-2
Fish
LC50: =45.4mg/L (96h, Oncorhynchus mykiss)
Crustacea
EC50 40.4 mg/L Ceriodaphnia sp. 48h

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility in soil No information available

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

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<td>1310-73-2</td>
<td>None</td>
<td>None</td>
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</table>

14. TRANSPORT INFORMATION

DOT

UN-No: UN1823
Proper Shipping Name: Sodium hydroxide, solid
Hazard Class 8
Subsidiary Class No information available
Packing group: II
Emergency Response Guide Number 154

Marine Pollutant No data available
DOT RQ (lbs): No information available
Special Provisions IB8, IP2, IP4, T3, TP33
Symbol(s): No information available
Description: UN1823, Sodium hydroxide, solid, 8, II

TDG (Canada)

Product code: S1302
Product name: SODIUM HYDROXIDE, COARSE GRANULAR, TECHNICAL
UN-No: UN1823
Proper Shipping Name: Sodium hydroxide, solid
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: II
Marine Pollutant: No information available
Description: UN1823, Sodium hydroxide, solid, 8, II

ADR
UN Number: UN1823
Proper Shipping Name: Sodium hydroxide, solid
Transport hazard class(es): 8
Packing group: II
Subsidiary Risk: No information available
Description: UN1823, Sodium hydroxide, solid, 8, II

IMDG
UN-No: UN1823
Proper Shipping Name: Sodium hydroxide, solid
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: II
Marine Pollutant: No information available
EMS: F-A
Description: UN1823, Sodium hydroxide, solid, 8, II

RID
UN Number: UN1823
Proper Shipping Name: Sodium hydroxide, solid
Transport hazard class(es): 8
Subsidiary Risk: No information available
Packing group: II
Description: UN1823, Sodium hydroxide, solid, 8, II

ICAO (air)
UN-No: UN1823
Proper Shipping Name: Sodium hydroxide, solid
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: II
Description: UN1823, Sodium hydroxide, solid, 8, II

IATA
UN Number: UN1823
Proper Shipping Name: Sodium hydroxide, solid
Transport hazard class(es): 8
Subsidiary Risk: No information available
Packing group: II
Precautionary Statements - 8L
Response
Special Provisions: No information available
Description: UN1823, Sodium hydroxide, solid, 8, II

15. REGULATORY INFORMATION

International Inventories

Product code: S1302 Product name: SODIUM HYDROXIDE, COARSE GRANULAR, TECHNICAL
**U.S. Regulations**

**Sodium Hydroxide**

**Massachusetts RTK:** Present

**New Jersey RTK Hazardous Substance List:** 1706

**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present

**Pennsylvania RTK:** Environmental hazard

**Pennsylvania RTK - Environmental Hazard List:** Present

**Minnesota - Hazardous Substance List:** Present

**New York Release Reporting - List of Hazardous Substances:**
- 1000 lb RQ
- 100 lb RQ

**Louisiana Reportable Quantity List for Pollutants:** 1000 lb final RQ

**California Reportable Quantity List for Pollutants:** 454 kg final RQ

**California Directors List of Hazardous Substances:** Present

**FDA - Food Additives Generally Recognized as Safe (GRAS):** 21 CFR 184.1763

**FDA - Direct Food Additives:**
- 21 CFR 173.310

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Component**

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<th>Component</th>
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**CERCLA/SARA**

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<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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**U.S. TSCA**

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<th>TSCA 8(d) - Health and Safety Reporting</th>
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**WHMIS 2015 Hazard Classification**

**Sodium Hydroxide**

1310-73-2 (100)

- **Corrosive to Metals - Category 1:** H290 May be corrosive to metals. (potentially corrosive to metals; the supplier should be contacted for more information); Health Hazard Not Otherwise Classified - Category 1: Causes severe damage to the respiratory tract (73% in aqueous solution); Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage.; Skin corrosion/irritation - Category 2: H315 Causes skin irritation. (0.4% in aqueous solution); Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.; Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation. (0.4% in aqueous solution); Specific target organ toxicity - Single exposure - Category 3: H335 May cause respiratory irritation. (0.4% in aqueous solution)

**Canada Hazardous Products Regulation**

This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

**DSL/NDSL**

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</table>

**EU Classification**

**EU GHS - SV - CLP 1272/2008**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>EU GHS - SV - CLP (1272/2008)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>Skin corrosion/irritation -</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin corrosion/irritation -</td>
</tr>
</tbody>
</table>

**EU - CLP (1272/2008)**

**R-phrase(s)**

R35 - Causes severe burns

**S-phrase(s)**

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S 1/2 - Keep locked up and out of the reach of children.

**Product code:** S1302  
**Product name:** SODIUM HYDROXIDE, COARSE GRANULAR, TECHNICAL

**Page:** 12 / 13
S37/39 - Wear suitable gloves and eye/face protection

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>C; R35</td>
<td>5%&lt;=C C; R35</td>
<td>S1/2 S26 S37/39 S45</td>
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<td>2%&lt;=C&lt;5% C; R34</td>
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<td>0.5%&lt;=C&lt;2% Xi; R36/38</td>
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</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
C - Corrosive

16. OTHER INFORMATION

Preparation Date: 3/19/2014
Revision date 11/18/2019
Prepared by: Sonia Owen

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End of Safety Data Sheet