

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

|              |                                |
|--------------|--------------------------------|
| Product name | Sodium Hydroxide 0.2N Solution |
| CAS number   | 1310-73-2                      |
| Synonyms     | No information available       |

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

|                 |                      |
|-----------------|----------------------|
| Identified uses | Laboratory Chemicals |
|-----------------|----------------------|

#### 1.3 Details of the supplier of the safety data sheet

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| Company   | Lab Alley, LLC<br>12501 Pauls Valley Road<br>Austin, Texas 78737<br>U.S.A. |
| Telephone | 512-668-9918                                                               |
| Fax       | 512-886-4008                                                               |

#### 1.4 Emergency telephone

|                   |                              |          |
|-------------------|------------------------------|----------|
| Emergency Phone # | US & Canada: 1-800-535-5053  | INFOTRAC |
|                   | International 1-352-323-3500 | INFOTRAC |

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### 2.2 GHS Label elements, including precautionary statements

None required.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

| Chemical name    | Common name and synonyms | CAS number | Concentration |
|------------------|--------------------------|------------|---------------|
| Sodium Hydroxide | Caustic soda             | 1310-73-2  | 0.80%         |
| Water            | Aqua; H <sub>2</sub> O   | 7732-18-5  | 99.20%        |

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

|                                |                                                                                                                         |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>If inhaled</b>              | Remove to fresh air. Get medical attention immediately if symptoms occur.                                               |
| <b>In case of skin contact</b> | Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur. |
| <b>In case of eye contact</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.         |
| <b>If swallowed</b>            | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.                   |

### 4.2 Most important symptoms and effects, both acute and delayed

None reasonably foreseeable.

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                                       |                                                                                       |
|---------------------------------------|---------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. |
| <b>Unsuitable extinguishing media</b> | No information available.                                                             |

### 5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. None reasonably foreseeable. Hazardous Combustion Products: Sodium oxides.

### 5.3 Special protective equipment and precautions for firefighters

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

### 5.4 Further information

**Flash Point** No information available.

**Autoignition Temperature** No information available.

#### Explosion limits

**Upper** No data available.

**Lower** No data available.

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

#### NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 2      | 0            | 0           | COR              |

## SECTION 6: Accidental release measures

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

Use personal protective equipment as required. Ensure adequate ventilation.

### 6.2 Environmental precautions

Should not be released into the environment.

### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal.

### 6.4 Reference to other sections

See Section 12 for additional Ecological Information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes, or clothing. Avoid ingestion and inhalation.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Keep containers tightly closed in a dry, cool, and well-ventilated place.

### Incompatibilities

Acids. Metals.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Component        | Type    | Value               |
|------------------|---------|---------------------|
| Sodium hydroxide | TWA     | 2 mg/m <sup>3</sup> |
|                  | Ceiling | 2 mg/m <sup>3</sup> |

#### US. ACGIH Threshold Limit Values

| Component        | Type    | Value               |
|------------------|---------|---------------------|
| Sodium hydroxide | Ceiling | 2 mg/m <sup>3</sup> |

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Component        | Type    | Value                |
|------------------|---------|----------------------|
| Sodium hydroxide | IDLH    | 10 mg/m <sup>3</sup> |
|                  | Ceiling | 2 mg/m <sup>3</sup>  |

#### Biological occupational exposure limits

No information available.

### 8.2 Exposure controls

#### Appropriate engineering controls

None under normal use conditions.

#### Personal protective equipment

##### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

##### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory protection**

Recommended Filter type: Particle filter.

**Control of environmental exposure**

No information available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|                                           |                          |
|-------------------------------------------|--------------------------|
| Physical State                            | Liquid                   |
| Appearance                                | Colorless                |
| Odor                                      | None                     |
| Odor Threshold                            | No information available |
| pH                                        | > 12                     |
| Melting Point/Range                       | >0 °C / 32 °F            |
| Boiling Point/Range                       | >100 °C / 212 °F         |
| Evaporation Rate                          | No information available |
| Flammability (solid)                      | Not applicable           |
| Flammability or explosive limit           |                          |
| Upper                                     | No data available        |
| Lower                                     | No data available        |
| Vapor Pressure                            | No information available |
| Vapor Density                             | No information available |
| Density                                   | 1.01 g/cm <sup>3</sup>   |
| Solubility                                | Soluble in water         |
| Partition coefficient;<br>n-octanol/water | No data available        |
| Autoignition Temp                         | No information available |
| Decomposition Temp                        | No information available |
| Viscosity                                 | 1.04 cSt                 |
| Molecular Formula                         | NaOH                     |
| Molecular Weight                          | 39.997 g/mol             |
| VOC Content(%)                            | No information available |
| Oxidizing properties                      | No information available |

**9.2 Other safety information** No information available.**SECTION 10: Stability and reactivity**

### 10.1 Reactivity

None known, based on information available.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Incompatible products. Excess heat.

### 10.5 Incompatible materials

Acids, Metals.

### 10.6 Hazardous decomposition products

Sodium oxides.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

##### Acute toxicity

| Component        | LD50 Oral       | LD50 Dermal         | LC50 Inhalation |
|------------------|-----------------|---------------------|-----------------|
| Sodium Hydroxide | 325 mg/kg (Rat) | 1350 mg/kg (Rabbit) | -               |

##### Skin corrosion/irritation

No information available.

##### Serious eye damage/eye irritation

No information available.

##### Respiratory or skin sensitization

No information available.

##### Germ cell mutagenicity

No information available.

##### Carcinogenicity

| Component        | CAS       | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|------------------|-----------|------------|------------|------------|------------|------------|
| Sodium Hydroxide | 1310-73-2 | Not listed | Not listed | Not listed | Not listed | Not listed |

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**Specific target organ toxicity - single exposure**

None known.

**Specific target organ toxicity - repeated exposure**

None known.

**Reproductive toxicity**

No information available.

**Chronic effects**

No information available.

**11.2 Additional Information**

The toxicological properties have not been fully investigated.

## SECTION 12: Ecological information

**12.1 Toxicity**

Do not empty into drains.

| Component        |      | Species             | Test Result          |
|------------------|------|---------------------|----------------------|
| Sodium Hydroxide | LC50 | Oncorhynchus mykiss | 45.4 mg/L 96h static |

**12.2 Persistence and degradability**

Soluble in water. Persistence is unlikely based on information available.

**12.3 Bio accumulative potential**

No information available.

**12.4 Mobility in soil**

Will likely be mobile in the environment due to its water solubility.

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Endocrine disrupting properties**

No information available.

**12.7 Other adverse effects**

No information available.

## SECTION 13: Disposal considerations

**13.1 Waste Disposal Methods**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14: Transport information

### DOT (US)

|                      |                           |
|----------------------|---------------------------|
| UN Number            | UN1824                    |
| Proper Shipping name | SODIUM HYDROXIDE SOLUTION |
| Hazard Class         | 8                         |
| Packaging Group      | II                        |

### IMDG

|                      |                           |
|----------------------|---------------------------|
| UN Number            | UN1824                    |
| Proper Shipping name | SODIUM HYDROXIDE SOLUTION |
| Hazard Class         | 8                         |
| Packaging Group      | II                        |

### IATA

|                      |                           |
|----------------------|---------------------------|
| UN Number            | UN1824                    |
| Proper Shipping name | SODIUM HYDROXIDE SOLUTION |
| Hazard Class         | 8                         |
| Packaging Group      | II                        |

## SECTION 15: Regulatory information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Listed, Sodium hydroxide (CAS #1310-73-2), 1000 lb.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous

Listed: Acute Health Hazard.

**SARA 313 (TRI reporting)**

Not listed.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act**

Listed, Sodium hydroxide (CAS #1310-73-2), 1000 lb.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

**US state regulations**

**US. Massachusetts RTK - Substance List**

Listed, Sodium hydroxide (CAS #1310-73-2), 1000 lb.

**US. New Jersey Worker and Community Right-to-Know Act**

Listed, Sodium hydroxide (CAS #1310-73-2), 1000 lb.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed, Sodium hydroxide (CAS #1310-73-2), 1000 lb.

**California Proposition 65**

Not listed.

**SECTION 16: Other information**

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**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.