

# **SAFETY DATA SHEET**

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

1.1 Product identifiers

Product name Sodium Hydroxide 20% (Analytical Reagent Grade)

CAS number 7732-18-5

Synonyms Soda Lye, Caustic Soda, Aetznatron, Sodium Hydrate

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

12501 Pauls Valley Road Austin, Texas 78737

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)

Skin Corrosion/ irritation (Category 1)

Eye Damage/ irritation (Category 1)

## 2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Danger

Hazard statements

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

Precaution statements

P260 Do not breathe fumes, mist, vapors, and spray.

P264 Wash arms, hands and face thoroughly after handling.

P280 Wear protective gloves and eye protection.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. DO NOT induce vomiting.

P303 + P36 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or physician.

P321 Specific treatment (wash areas of contact with water immediately).

P363 Wash contaminated clothing before reuse.

P405 Store locked up

P501 Dispose of contents in accordance with local, state, federal and international regulations.

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

No information available

## **SECTION 3: Composition/information on ingredients**

## 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	H2O	7732-18-5	79.2-80.8 %
Sodium Hydroxide	NaOH	1310-73-5	19.6-20.2%

## **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### General advice

If inhaled Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if

In case of skin contact IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water. Causes severe burns.

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In case of eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Corrosive! Causes irritation and burns. Can cause burns that may lead to permanent impairment of vision,

including blindness.

If swallowed IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Dilute with water or

milk. Do not induce vomiting. Call a physician if necessary.

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

Causes severe skin burns and eye damage. Causes serious eye damage. CAUTION! Corrosive. Causes severe burns. May be fatal if swallowed. Harmful if inhaled. Wash areas of contact with water for at least 15 minutes. Call a physician if irritation develops. If ingested, dilute with water and call a physician. Do not induce vomiting. For eyes, flush out with plenty of water for at least 15 minutes. Call a physician. Reacts violently with acids. EYE CONTACT: Corrosive! Causes irritation and burns. Can cause burns that may lead to permanent impairment of vision, including blindness. SKIN CONTACT: Causes severe burns. CHRONIC EFFECTS /CARCINOGENICITY: Repeated exposures to Sodium Hydroxide solutions has a destructive effect on tissue.

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

Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media Water spray, Carbon dioxide (CO2), dry chemical,

alcohol-resistant foam

Unsuitable extinguishing media No information available

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

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

#### 5.3 Special protective equipment and precautions for firefighters

Wear special protective clothing and positive pressure self-contained breathing apparatus. Butyl rubber, natural rubber, Neoprene, nitrile rubber, polyethylene, polyvinyl chloride, Teflon, Viton, or Saranex barrier recommended.

#### 5.4 Further information

No information available

#### **SECTION 6: Accidental release measures**

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## 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective gloves and eye protection.

## 6.2 Environmental precautions

No information available

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

Keep water away from release. Stop or control the leak, if this can be done without undue risk. Prompt cleanup and removal are necessary. Shovel into suitable dry container. Control runoff and isolate discharged material for proper disposal.

#### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

## **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

#### Precautions on safe handling

Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Do not mix with acids.

#### Hygiene measures

No information available

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Store locked up.

#### Incompatibilities

acids

## **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	Туре	Value
Sodium Hydroxide	TWA	2 mg/m3

## **US. ACGIH Threshold Limit Values**

Component	Type	Value
Sodium Hydroxide	TLV-Ceiling	2 mg/m3

#### 8.2 Exposure controls

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#### Appropriate engineering controls

No specific controls are needed. Normal room ventilation is adequate.

## Personal protective equipment

## Eye/face protection

Wear protective gloves and eye protection. Safety glasses or goggles.

#### Skin protection

Wear protective gloves and eye protection. Chemical resistant gloves.

## **Body Protection**

Wear protective clothing to minimize skin exposure.

#### Respiratory protection

Normal room ventilation is adequate.

#### 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 liqud

Odor No information available
Odor Threshold No information available

pH Greater than 13 Melting Point/Range Approx. 0°C

Boiling Point/Range Approximately 100°C
Evaporation Rate No information available
Flammability (solid) No information available
Flammability or explosive limit No information available
Vapor Pressure No information available
Vapor Density No information available

Density 1.19
Solubility Miscible

No information available Partition coefficient; n-octanol/water Autoignition Temp No information available **Decomposition Temp** No information available Viscosity No information available Molecular Formula No information available No information available Molecular Weight VOC Content(%) No information available No information available Oxidizing properties

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## 9.2 Other safety information

No data available

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

Stable under normal conditions of use and storage

#### 10.2 Chemical stability

Stable under normal conditions of use and storage

#### 10.3 Possibility of hazardous reactions

No information available

#### 10.4 Conditions to avoid

Incompatible materials

## 10.5 Incompatible materials

Violent reactions possible with: Acetone, Chlorine, Ethylene oxide, Fluorine, Hydrogen halides, Hydrazine hydrate, hydroxylamine, Acid anhydrides, Acrolein, Acid chlorides, Acids, Sulfur acid, Chloroform, Water, Hydrogen peroxide, Anhydrides, Phosphides, Halogen-halogen compounds, Trichloroethene.

Can decompose violently in contact with: Organic substances, Hydrogen sulphide Risk of ignition or formation of inflammable gases or vapors with: Powdered aluminum, Ammonium salts, persulfates, Sodium borohydride, Phosphorus, Oxides of phosphorus, Halogenated hydrocarbon, Light metals, metals

Risk of explosion/exothermic reaction with: Bromine, Calcium. In powder form: furfuryl alcohol, Nitromethane, Peroxides, Organic nitro compounds, Nitriles, Acrylic monomers, Chloroform with Acetone, Nitrobenzene with Methanol, Nitrobenzene with salts, Magnesium, Zinc, and Tin (In the presence of atmospheric oxygen and/or moisture).

## 10.6 Hazardous decomposition products

No information available

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

**Product Information, Component Information** 

#### **Acute toxicity**

No information available

Skin corrosion/irritation

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Causes severe skin burns and eye damage. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Serious eye damage/eye irritation

Causes serious eye damage. Wear protective gloves and eye protection. 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.

## Respiratory or skin sensitization

Not applicable

#### Germ cell mutagenicity

Not applicable

#### Carcinogenicity

Not applicable

#### Specific target organ toxicity - single exposure

None known

#### Specific target organ toxicity - repeated exposure

None known

#### Reproductive toxicity

Not applicable

#### **Chronic effects**

Not applicable

#### 11.2 Additional Information

No information available

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Not applicable

#### 12.2 Persistence and degradability

No information available

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## 12.3 Bio accumulative potential

No information available

## 12.4 Mobility in soil

No information available

## 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)** 20L, 55 Gal UN number: UN1824

Proper shipping name: Sodium Hydroxide Solution

Hazard Class 8
Packaging Group II

Environmental hazards



**IMDG** 20L, 55 Gal UN number: UN1824

Proper shipping name: Sodium Hydroxide Solution

Hazard Class 8
Packaging Group II

Environmental hazards



IATA 20L, 55 Gal UN number: UN1824

Proper shipping name: Sodium Hydroxide Solution

Hazard Class 8
Packaging Group II

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## **SECTION 15: Regulatory information**

**US federal regulations** This product is not 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 regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

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 Chemicals

Sodium Hydroxide (CAS # 1310-73-2): 1000 lb final RQ; 454 kg final RQ

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** 

Not regulated

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

Not regulated

Food and Drug Administration (FDA)

Allowed as food additive in levels lower than 1%

**US** state regulations

**US. Massachusetts RTK - Substance List** 

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Listed

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

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

## **California Proposition 65**

Not listed

#### **SECTION 16: Other information**

Revision date: 06/14/2024

Revision number: 0

#### **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.

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