

Section 1: Identification

Product name: 10M Sodium Hydroxide (NaOH) Solution
Product number: TBS5052
Identified uses: Laboratory chemicals, Synthesis of substances.

Company: Tribioscience
 365 San Aleso Ave
 Sunnyvale, CA 94085

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Section 2: Hazard(s) Identification

Hazard Classification: Skin corrosion/irritation, Category 1B H314
 Serious eye damage/eye irritation, Category 1 H318
 Full text of H statements: see section 16

Signal Word(s): Danger
Hazard Statements: H314 - Causes severe skin burns and eye damage

Pictograms:



Precautionary Statements:

- P260 - Do not breathe mist, spray, vapors
- P264 - Wash exposed skin thoroughly after handling
- P280 - Wear eye protection, face protection, protective clothing, protective gloves
- P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
- P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position 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 doctor/physician
- P363 - Wash contaminated clothing before reuse
- P405 - Store locked up

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P501 - Dispose of contents/container to comply with local, state, and federal regulations

Description of other hazards: None.

Section 3: Composition/ Information on Ingredients

| Chemical Name | CAS# | Concentration (%) |
|------------------|-----------|-------------------|
| Water | 7732-18-5 | 69.89 |
| Sodium Hydroxide | 1310-73-2 | 30.11 |

Section 4: First-Aid Measures

After skin contact: Immediately call a POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

After inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

After swallowing: Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: Carbon dioxide. Dry powder. Water spray. Foam. Sand.

Unsuitable extinguishing agents: Not available. Do not use a heavy water stream.

Specific hazards arising from chemical: Not flammable. Reacts with (some) metals: release of highly flammable gases/vapors (hydrogen). Thermal decomposition generates: Corrosive vapors.

Special protective equipment for firefighters: Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6: Accidental Release Measures

Personal precautions: Advice for non-emergency personnel: Avoid substance contact. Do not breathe vapors, aerosols. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

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Advice for emergency responders: Protective equipment see section 8.

Measures for environmental protection:
Measures for cleaning/collecting:

Do not empty into drains.
 Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralizing material (e.g. Chemizorb® OH⁻; Art. No. 101596). Dispose of properly. Clean up affected area.

Section 7: Handling and Storage

Handling:

Observe label precautions.

Storage:

No aluminum, tin, or zinc containers.

Section 8: Exposure Controls/Personal Protection

Water (7732-18-5)

Not applicable.

Sodium Hydroxide (1310-73-2)

| | | |
|-------|--|---|
| ACGIH | ACGIH Ceiling (mg/m ³) | 2 mg/m ³ (Sodium hydroxide; USA; Momentary value; TLV - Adopted Value) |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 2 mg/m ³ |
| IDLH | US IDLH (mg/m ³) | 10 mg/m ³ |
| NIOSH | NIOSH REL (ceiling) (mg/m ³) | 2 mg/m ³ |

Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

General protective and hygienic measures:

Gloves. Safety glasses. Protective clothing. Head/neck protection. Avoid all unnecessary exposure.

Breathing equipment:

In case of inadequate ventilation wear respiratory protection. Wear appropriate mask.

Protection of hands:

Wear chemically resistant protective gloves.
 Wear protective gloves.

Eye protection:

Chemical goggles or face shield.

Section 9: Physical and Chemical Properties

Physical state:

Liquid

Color:

Colorless

Odor:

Odorless

Odor threshold:

No data available.

pH:

≥14

Melting point/freezing point:

No data available.

Boiling point/boiling range:

No data available.

Flash point:

No data available.

Evaporation rate:

No data available.

Flammability:

No data available.

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| Upper/lower flammability or explosive limits: | No data available. |
| Vapor pressure: | No data available. |
| Vapor density: | No data available. |
| Relative density: | No data available. |
| Solubility: | Soluble in water. Soluble in ethanol. Soluble in methanol. |
| Partition coefficient: | No data available. |
| Auto ignition temperature: | No data available. |
| Decomposition temperature: | No data available. |
| Viscosity: | 10.2 cSt |

Section 10: Stability and Reactivity

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| Reactivity: | Reacts with (some) metals: release of highly flammable gases/vapors (hydrogen). Thermal decomposition generates: Corrosive vapors. |
| Chemical stability: | Stable under normal conditions. |
| Possibility of hazardous reactions: | No data available. |
| Conditions to avoid: | Incompatible materials. Direct sunlight. Extremely high or low temperatures. |
| Incompatible materials: | Metals. Strong acids. |
| Hazardous decomposition products: | Sodium oxide. fume. Thermal decomposition generates: Corrosive vapors. |

Section 11: Toxicological Information

| | |
|----------------------------------|---|
| Acute toxicity: | Not classified. |
| Skin: | Causes severe skin burns and eye damage. pH: ≥ 14 |
| Eye: | Causes serious eye damage. pH: ≥ 14 |
| Inhalation: | Not classified. |
| Germ cell mutagenicity: | Not classified. |
| Carcinogenic effects: | Not classified. |
| Reproductive toxicity: | Not classified. |
| STOT - single exposure: | Not classified. |
| STOT - repeated exposure: | Not classified. |
| Aspiration hazard: | Not classified. |

Section 12: Ecological Information

| | |
|-------------------------|---|
| Ecotoxicity: | Contains no substances known to be hazardous to the environment or not degradable in wastewater treatment plants. |
| Mobility: | No data available. |
| Biodegradation: | The methods for determining the biological degradability are not applicable to inorganic substances. |
| Bioaccumulation: | No data available. |

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Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

Section 13: Disposal Considerations

Waste from residues/unused products: Dispose of contents/container to comply with local, state, and federal regulations. Dispose in a safe manner in accordance with local/national regulations.

Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

DOT regulations

UN number: UN1824
UN shipping name: Sodium hydroxide solution
Hazard class: 8
Packing group: II
Marine pollutant: No
Transport in bulk: None
Special precautions: No

Section 15: Regulatory Information

SARA Section 313 (specific toxic chemical listings): 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.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs): None

TSCA (Toxic Substances Control Act): None

Section 16: Other Information

Date of preparation/update: 8/26/20