

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Sodium Hydroxide 10% Technical Grade**Synonyms:** sodium hydroxide**CAS Number:** 1310-73-2**Grade/Purity:** Technical Grade**Product Type:** Bases**Product Use:** Industrial, Manufacturing or Laboratory use**Manufacturer/Supplier:** Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574**Information:** 512-365-6838 | [www.alliancechemical.com](http://www.alliancechemical.com)**Emergency:** CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

## 2. HAZARDS IDENTIFICATION

**Signal Word:** Danger**GHS Pictograms:****Hazard Statements:**

|      |                                         |
|------|-----------------------------------------|
| H290 | May be corrosive to metals              |
| H314 | Causes severe skin burns and eye damage |

**Precautionary Statements:**

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P234           | Keep only in original packaging.                                                                                                 |
| P260           | Do not breathe dust, fume, gas, mist, vapours or spray.                                                                          |
| P264           | Wash hands and face thoroughly after handling.                                                                                   |
| P280           | Wear protective gloves, protective clothing, and eye/face protection.                                                            |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                                                                               |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                           |
| 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 doctor.                                                                                      |
| P321           | Specific treatment (see first-aid information on this label).                                                                    |
| P363           | Wash contaminated clothing before reuse.                                                                                         |
| P405           | Store locked up.                                                                                                                 |
| P501           | Dispose of contents and container in accordance with local, regional, national, and international regulations.                   |

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENT        | % MIN | % MAX | CAS #     | EINECS# / ELINCS# | FORMULA | MOLECULAR WEIGHT |
|------------------|-------|-------|-----------|-------------------|---------|------------------|
| Sodium Hydroxide | 10    | 10    | 1310-73-2 | 215-185-5         | NaOH    | 40.00 g/mol      |

|       |    |    |           |           |                  |             |
|-------|----|----|-----------|-----------|------------------|-------------|
| Water | 90 | 90 | 7732-18-5 | 231-791-2 | H <sub>2</sub> O | 18.02 g/mol |
|-------|----|----|-----------|-----------|------------------|-------------|

#### 4. FIRST-AID MEASURES

|                   |                                                                                                                                                                                        |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eyes</b>       | Rinse with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention immediately.                             |
| <b>Skin</b>       | Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing. Wash with soap. Get medical attention immediately.                                |
| <b>Inhalation</b> | Move person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately. |
| <b>Ingestion</b>  | Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.                             |

#### 5. FIRE-FIGHTING MEASURES

|                             |                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------|
| <b>Suitable Media</b>       | Dry chemical, CO <sub>2</sub> , water spray. Use water spray to cool containers. |
| <b>Unsuitable Media</b>     | Do not use a solid water stream as it may scatter and spread fire.               |
| <b>Protective Equipment</b> | Wear self-contained breathing apparatus and full protective clothing.            |
| <b>Combustion Products</b>  | May include carbon oxides and other toxic fumes. See Section 10.                 |

#### 6. ACCIDENTAL RELEASE MEASURES

|                                  |                                                                                                         |
|----------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>      | Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.       |
| <b>Environmental</b>             | Prevent leakage or spillage from entering drains, sewers, or waterways.                                 |
| <b>Containment &amp; Cleanup</b> | Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations. |

#### 7. HANDLING AND STORAGE

|                      |                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safe Handling</b> | Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.                      |
| <b>Safe Storage</b>  | Store in a cool, dry, well-ventilated area. Use corrosion-resistant containers. Keep away from incompatible materials (see Section 10). Keep containers tightly closed. |

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

**Occupational Exposure Limits:**

| AGENCY    | EXPOSURE LIMIT              |
|-----------|-----------------------------|
| OSHA PEL  | 2 mg/m <sup>3</sup> TWA     |
| NIOSH REL | 2 mg/m <sup>3</sup> ceiling |
| IDLH      | 10 mg/m <sup>3</sup>        |

|                   |                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eyes</b>       | Wear chemical safety goggles or face shield.                                                                                                                                                                                                                                              |
| <b>Skin</b>       | Wear chemical-resistant gloves and protective clothing.                                                                                                                                                                                                                                   |
| <b>Inhalation</b> | For mist or aerosol applications (e.g., spray, atomization, pressure washing), use a NIOSH-approved half-face air-purifying respirator with combination acid gas / P100 cartridges. For dust exposure, an N95 or P100 particulate filter is acceptable. Ensure local exhaust ventilation. |

Exposure limits sourced from NIOSH Pocket Guide and OSHA 29 CFR 1910.1000. Hazard classification from ECHA Classification and Labelling Inventory (CLP Annex VI).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

|                   |                         |
|-------------------|-------------------------|
| <b>Appearance</b> | Clear, colorless liquid |
| <b>Odor</b>       | Characteristic          |

|                          |                        |
|--------------------------|------------------------|
| Particle Characteristics | Not Applicable         |
| pH                       | Not Available          |
| Melting Point            | 318°C (pure)           |
| Boiling Point            | 1390°C (pure)          |
| Flash Point              | Not Available          |
| Vapor Pressure           | Not Available          |
| Specific Gravity         | 1.109                  |
| Solubility               | Fully soluble in water |
| Molecular Formula        | NaOH                   |
| Molecular Weight         | 40.00 g/mol            |

## 10. STABILITY AND REACTIVITY

|                        |                                                                                   |
|------------------------|-----------------------------------------------------------------------------------|
| Chemical Stability     | Stable under recommended storage conditions.                                      |
| Hazardous Reactions    | None under normal processing conditions.                                          |
| Conditions to Avoid    | Heat, sparks, open flame, and incompatible materials.                             |
| Incompatible Materials | Strong acids, strong bases, reactive metals, water (for some concentrated forms). |
| Decomposition Products | May produce carbon oxides and other toxic fumes when heated to decomposition.     |

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** See Section 2 for GHS hazard classification.

|      |                           |
|------|---------------------------|
| IARC | Not listed as carcinogen. |
| NTP  | Not listed as carcinogen. |
| OSHA | Not listed as carcinogen. |

## 12. ECOLOGICAL INFORMATION

|                  |                                                                                                                                                                                   |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ecotoxicity      | Daphnia EC50: 40.38 mg/L (48 h, Ceriodaphnia dubia (<24 h neonate) — pH-driven; 95% CI 34.59–47.13 mg/L); Fish LC50: 125 mg/L (96 h, Gambusia affinis (mosquitofish) — pH-driven) |
| Persistence      | Not applicable (inorganic; dissociates to Na <sup>+</sup> and OH <sup>-</sup> )                                                                                                   |
| Bioaccumulation  | Not Available                                                                                                                                                                     |
| Mobility in Soil | Highly water-soluble                                                                                                                                                              |

## 13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

## 14. TRANSPORT INFORMATION

|                  |                                             |
|------------------|---------------------------------------------|
| US DOT           | UN1824, Sodium hydroxide solution, 8, PG II |
| IMDG             | UN1824, Sodium hydroxide solution, 8, PG II |
| IATA/ICAO        | UN1824, Sodium hydroxide solution, 8, PG II |
| Marine Pollutant | No                                          |

## 15. REGULATORY INFORMATION

|                    |                                           |
|--------------------|-------------------------------------------|
| TSCA Inventory     | Listed.                                   |
| SARA 313 (TRI)     | Not listed.                               |
| California Prop 65 | Not listed.                               |
| SARA 311/312       | See Section 2 for hazard classifications. |

Data retrieved as of — TSCA Inventory: 2026-08-02; SARA 313 (TRI): 2026-08-02; California Prop 65: 2026-08-02

## 16. OTHER INFORMATION

### Revision Date: 08/25/2026

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