

Safety Data Sheet

Sodium Hydroxide, 0.1N

Revision Date: 03/04/19

1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|-------------------------------------|---|
| 1.1 Product identifier | Trade name: Sodium Hydroxide, 0.1N Product code(s): 3262-32 |
| 1.2 Relevant identified uses | Laboratory Reagent |
| Supplier: | Astral Diagnostics Inc. 800-441-0366 Technical Service Monday-Friday: 8:00 -5:00 PM |
| Synonym: | None. |
| Material uses: | Laboratory Reagent. |
| Validation date: | 12/11/2013 |
| In case of emergency: | 800-424-9300 CHEMTREC (USA) 24 Hours/Day: 7 Days/Week |

2. HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion (Category 1B), H314
Serious Eye Damage (Category 1), H318

GHS Label Elements: Pictogram



Signal Word: **Danger!**

Hazard Statements

H314: Causes severe skin burns and eye damage

Precautionary Statements:

P260: Do not breathe mist, spray, vapors

P264: Wash exposed skin thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

NFPA Rating

Health hazard: 3

Fire: 0

Reactivity Hazard: 0

HMS Classification

Health hazard: 3

Flammability: 0

Physical hazards: 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS number | % by w/v |
|------------------|------------|----------|
| Water | 7732-18-5 | ~99 |
| Sodium Hydroxide | 1310-73-2 | <1 |

4. FIRST AID MEASURES

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures 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.*

First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.

First-aid measures 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.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media: Do not use a heavy water stream

5.2 Special hazards arising from the substance or mixture

No additional information available

5.3 Advice for firefighters

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Gloves. Safety glasses. Combined gas/dust mask with filter type B/P3.
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Additional hazards when processed: May be corrosive to metals

Precautions for safe handling: Do not get in eyes, on skin, or on clothing. Remove contaminated clothing immediately. Use corrosion proof equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, spray, vapors.

Hygiene Measures: Wash exposed skin thoroughly after handling. Wash contaminated clothing before use.

7.2 Conditions for safe storage, including any incompatibles

Technical measures: Comply with applicable regulations

Storage conditions: Keep container closed when not in use. Store in original container. Keep only in the original container in a cool, well ventilated place away from incompatible materials.

Incompatible products: Strong acids. Metals

Incompatible materials: Sources of ignition. Direct sunlight

Storage Temps: 5-30°C

Prohibition on mixed storage: Keep substance away from strong acids, metals, metal powders

Storage areas: Keep locked up. Store in a well-ventilated place. Keep only in the original container

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Component | Source | Type | Value | Note |
|------------------|--------|-----------|---------------------|------|
| Sodium Hydroxide | ACGH | Ceiling | 2 mg/m ³ | |
| | OSHA | PEL (TWA) | 2 mg/m ³ | |
| | NIOSH | REL (TWA) | 2 mg/m ³ | |

Personal protective equipment: Gloves. Safety glasses. Protective clothing

Hand protection: Wear protective gloves

Eye protection: Chemical goggles or face shield

Skin and body protection: Wear suitable protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Flash Point: no data available

pH: ≥14

Melting/freezing point: no data available

Vapor pressure: NA

Odor threshold: NA

VOC: NA

Color: Clear

Odor: odorless

Boiling/condensation point: NA

Relative density: No data available

Vapor density: NA

Evaporation rate: NA

Solubility: Soluble in the following materials: water

10. STABILITY AND REACTIVITY

10.1. Reactivity

Reacts with some metals: release of highly flammable gases/vapor (hydrogen). Thermal decomposition generates: corrosive vapors.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids

10.4. Conditions to avoid

Incompatible materials. Direct sunlight. Extremely high or low temperatures

10.5. Incompatible materials

Strong oxidizers. Strong acids.

10.6. Hazardous decomposition products

Sodium oxide. Thermal decomposition generates corrosive vapors

11. TOXICOLOGICAL INFORMATION

Sodium Hydroxide, 10%

LD50 dermal rabbit 14835 mg/kg

ATE US dermal 14835 mg/kg body weight

Water (7732-18-5)

LD50 oral rat ≥ 90000 mg/kg

ATE US oral 90000 mg/kg

Skin corrosion/irritation causes severe skin burns and eye damage, ≥ 14

Serious eye damage/irritation causes serious eye damage, ≥ 14

12. ECOLOGICAL INFORMATION

| | | | |
|--------------------------------------|------------------------------|-------------------|----------|
| Toxicity | Sodium Hydroxide, 10% | | |
| | | LC50 fish1 | 499 mg/l |
| | | EC50 Daphnia1 | 443mg/l |
| Persistence and degradability | Sodium Hydroxide, 10% | No data available | |
| Bioaccumulative potential | Sodium Hydroxide, 10% | No data available | |
| Mobility in soil | Sodium Hydroxide, 10% | No data available | |

13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT (US) UN 1824, Sodium Hydroxide, 8, II

IMDG UN 1824, Sodium Hydroxide, 8, II

IATA UN 1824, Sodium Hydroxide, 8, II

15. REGULATORY INFORMATION

15.1 US Federal regulations

Sodium Hydroxide

RQ 1000 lb

SARA Section 311/312 Hazardous Classes: Immediate health hazard

15.2 International regulations

Sodium Hydroxide

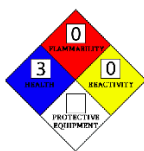
WHMIS Classification: Listed on the Canadian DSL

15.3 California Proposition 65

This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm. For more information go to www.P65Warnings.ca.gov

16. OTHER INFORMATION

National Fire Protection Association (U.S.A.)



Notice to reader

This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labeling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Astral Diagnostics, Inc be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.