

## Sodium Hydroxide Normal

Revision Date: 1/15/15

## Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

**1.1 Product identifier** Trade name: Sodium Hydroxide Normal  
Product code(s): 3261

**1.2 Relevant identified uses** Laboratory Reagent

**Supplier:** Astral Diagnostics Inc.  
1224 Forest Parkway, Suite 200  
West Deptford, NJ 08066  
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 1A), H314 H314 Cause severe skin and eye damage  
Serious Eye Damage (Category 1), H318 H318 Causes serious eye damage

#### GHS Label Elements, Pictogram



**Signal Word: Danger!**

#### Hazard statement(s)

**H290:** May be corrosive to metals  
**H314:** Causes severe skin burns and eye damage  
**H318:** Causes serious eye damage

#### Precautionary Statement(s)

**P264:** Wash skin thoroughly after handling  
**P280:** Wear protective gloves/ protective clothing/ eye protection/ face protection

#### Precautionary statement(s):

If in eyes or skin: Rinse with water for several minutes. Remove contact lenses, if present and rinse again.

#### Target Organs

Respiratory Tract

#### NFPA Rating

Health hazard: 3

#### HMIS Classification

Health hazard: 3

Fire: 0  
Reactivity Hazard: 0

Flammability: 0  
Physical hazards: 0

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	% by weight
Sodium Hydroxide	1310-73-2	4
C <sub>2</sub> H <sub>4</sub> O <sub>2</sub> , MW 60.05g	EC-No 200-580-7	

### 4. FIRST AID MEASURES

- Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with water for 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact:** Flush skin with water for 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation:** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion:** Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### 5. FIRE-FIGHTING MEASURES

**Flammability of the product:** Not Flammable

**Extinguishing media:** Use suitable media for surrounding materials. If water use fog spray, avoid direct stream.

**Special exposure hazards:** Avoid contact with strong oxidizers

**Decomposition products:** Decomposition products: carbon dioxide, carbon monoxide

**Special protective equipment for fire-fighters:** Use self-contained breathing apparatus if necessary.

**Explosion hazards:** Not-applicable

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Keep unnecessary and unprotected personnel from entering area. Avoid breathing vapors. Provide adequate ventilation. Do not touch or walk through spilled material.

**Environmental precautions:** Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Contain spill area.

**Spill:** Prevent runoff. Contain and collect spillage with absorbent material e.g. sand, earth, vermiculite etc and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Dilute with water and mop-up or absorb with an inert dry material and place in an appropriate waste disposal container. Avoid contact with strong oxidizers.

### 7. HANDLING AND STORAGE

**Handling:** Avoid breathing vapors or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store in ventilated areas.

**Storage:** Store in a well-ventilated, cool area, and protected from direct sunlight. Keep container tightly closed and sealed until ready for use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limits:

**Carcinogenicity:** IRAC, ACIGH, NTP, OSHA No component of this product is identified as a carcinogen

**Engineering measures:** Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne concentrations below any recommended threshold limits.

**Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating and using the lavatory. Wash contaminated clothing before reusing.

### Personal protection

**Respiratory:** If used in poorly ventilated areas, use a properly fitted, air-purifying or air-fed respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels.

**Hands:** Chemical-resistant neoprene gloves

**Eyes:** Safety eyewear; splash goggles, face shield

**Skin:** Lab coats for personal protective equipment and should be approved by a specialist before handling this product. Depending on volume/conditions a full acid suit, flame retardant, antistatic may be necessary.

### Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid.	<b>Color:</b>	Clear
<b>Flash Point:</b>	NA	<b>Odor:</b>	Odorless
<b>pH:</b>	≥12	<b>Boiling/condensation point:</b>	NA
<b>Melting/freezing point:</b>	16.2°C	<b>Relative density:</b>	~1.00
<b>Vapor pressure:</b>	NA	<b>Vapor density:</b>	NA
<b>Odor threshold:</b>	NA	<b>Evaporation rate:</b>	NA
<b>VOC:</b>	NA		
<b>Solubility:</b>	Soluble in the following materials: water		

## 10. STABILITY AND REACTIVITY

**Chemical stability:** The product is stable under normal conditions.

**Possibility of hazardous reactions:**

Under normal conditions of storage and use, hazardous reactions will not occur.

**Hazardous polymerization:** Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to avoid:** Excessive heat

**Materials to avoid:** Reactive or incompatible with: oxidizing materials, metals and acids.

**Hazardous decomposition**

**products:** Under normal conditions of storage and use, hazardous decomposition products should not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Oral LD50-Rat 3,310mg/kg

Inhalation LC50, Mouse 1hr - 5620ppm

Dermal LD50, Rabbit 1,112 mg/kg

**Other information on acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

Eyes: no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

**Inhalation** May be toxic if inhaled. Causes respiratory tract inflammation/burns.

**Ingestion** May be toxic if swallowed and causes burns/tissue destruction.

**Skin** Toxic if absorbed through skin. Causes skin irritation/blisters.

**Eyes** Will burn eyes on contact.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**12. ECOLOGICAL INFORMATION****Toxicity**

LC50, rainbow trout >1000 mg/L 96 hr

**HPersistence and degradability**

Expected to be biodegradable

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

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) UN1824, Sodium Hydroxide Solution 8, II

IMDG UN1824, Sodium Hydroxide Solution, 8, II

IATA UN1824, Sodium Hydroxide Solution, 8, II

**15. REGULATORY INFORMATION**

**SARA 302:** No components are subject to reporting of Title III

**SARA 313:** No components are subject to reporting of Title III

**SARA 311/312:** Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**WHMIS (Canada):**

**DEA List I Chemicals  
Precursor Chemicals):** Not listed  
**DEA List II Chemicals  
Essential Chemicals):**

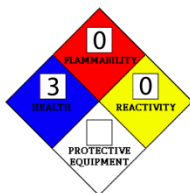
RTK: CAS 1310-73-2, Listed

Massachusetts, Minnesota, Pennsylvania, Rhode Island

**California Prop 65 Components:** No components listed for causing cancer, birth defects or any reproductive harm.

## 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 Labelling 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..