



**Material Safety Data Sheet**  
**Sodium Hydroxide, 0.01N - 0.1N in Methanol**

**Section 1 - Chemical Product and Company Identification**

**MSDS Name:**

Sodium Hydroxide, 0.01N - 0.1N in Methanol

**Catalog Numbers:**

LC24520, LC24530, LC24550

**Synonyms:****Company Identification:**

LabChem, Inc.  
 200 William Pitt Way  
 Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

**Section 2 - Composition, Information on Ingredients**

CAS#	Chemical Name:	Percent
67-56-1	Methyl alcohol	balance
1310-73-2	Sodium hydroxide	0.04-0.4

**Section 3 - Hazards Identification**

**EMERGENCY OVERVIEW**

*Appearance: Colorless*

*Danger! Flammable liquid. May be fatal or cause blindness if swallowed. May cause severe eye and skin irritation with possible burns. May cause severe digestive tract irritation with possible burns. Flash Point: 11°C.*

*Target Organs: Noneknown.*

**Potential Health Effects****Eye:**

Eye contact may result in corneal lesions, vision loss or impairment, pain or blindness. 5ppm and 40mg reported to cause moderate irritation.

**Skin:**

Skin contact can result in defatting, mild dermatitis.



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**Ingestion:**

Effects may be delayed. Kidney and liver damage may occur with possible heart or respiratory failure to coma and death. Kidney failure can occur in non-fatal cases.

**Inhalation:**

Inhalation or ingestion causes narcotic intoxication leading to headache, cramps, severe pain and blindness.

**Chronic:**

Methanol--blurred or painful vision, conjunctivitis; possible mutagenic or reproductive effects.

## Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

**Skin:**

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

**Ingestion:**

Get medical aid at once. If victim is unconscious, give 2-4 glasses of water and induce vomiting.

**Inhalation:**

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

**Notes to Physician:**

Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:**

Vapor heavier than air, may travel considerable distance and flashback from source of ignition. Flammable liquid is poisonous - wear respiratory gear. Use flooding quantities of water as fog (streams may spread fire), cool all containers. Dangerous fire/negligible explosion hazard when exposed to heat or flame. Hazardous reactions with strong oxidizers. Vapor-air mixtures explosive.

**Extinguishing Media:**

Use dry chemical, carbon dioxide, or alcohol-resistant foam.

**Autoignition Temperature:**

385°C ( 725.00°F)

**Flash Point:**

11°C ( 51.80°F)

**NFPA Rating:**

CAS # 67-56-1 health-1; flammability-3; reactivity-0  
CAS# 1310-73-2: Not published.

**Explosion Limits:**

Lower: 6.7      Upper: 36



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### Section 6 - Accidental Release Measures

#### General Information:

Use proper personal protective equipment as indicated in Section 8.

#### Spills/Leaks:

Contain if possible, absorb with sand or inert absorbent, scoop into labeled disposal container. Shut off ignition source, avoid vapors. Isolate, ventilate spill area. Label reclaimed spill material as flammable.

### Section 7 - Handling and Storage

#### Handling:

Wash thoroughly after handling. Ground and bond containers when transferring material. Avoid breathing dust, vapor, mist, or gas.

#### Storage:

Store capped at room temperature. Protect from heat and incompatibles. Do not store in unmarked containers.

### Section 8 - Exposure Controls, Personal Protection

#### Engineering Controls:

Local exhaust ventilation may be necessary to control any air contaminant to within their TLV during the use of this product. Ventilation equipment must be explosion-proof.

#### Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Methyl alcohol	200 ppm TWA; 250 ppm STEL; skin - potential for cutaneous absorption	200 ppm TWA; 260 mg/m <sup>3</sup> TWA	200 ppm TWA; 260 mg/m <sup>3</sup> TWA;
Sodium hydroxide	None of the components are on this list.	None of the components are on this list.	2 mg/m <sup>3</sup> TWA;

#### OSHA Vacated PELs

Methyl alcohol: 200 ppm TWA; 260 mg/m<sup>3</sup> TWA  
Methyl alcohol: 200 ppm TWA; 260 mg/m<sup>3</sup> TWA

### Personal Protective Equipment

#### Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

#### Skin:

Wear protective gloves (butyl, neoprene, nitrile).

#### Clothing:

Wear appropriate protective clothing to prevent skin exposure.

#### Respirators:

Firefighting--any self-contained breathing apparatus with full facepiece operated in pressure-demand mode. Use supplied air (SA) respirators or self-contained breathing apparatus (SCBA) at 2000 ppm; SA or SCBA with Facepiece at 10,000 ppm; above 10,000 ppm use type C SAF in positive pressure/continuous flow mode; pos.press. SCBA for escape.



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**Section 9 - Physical and Chemical Properties**

**Physical State:** Clear liquid  
**Color:** Colorless  
**Odor:** Alcohol-like  
**pH:** Alkaline  
**Vapor Pressure:** 97 mm Hg @20C  
**Vapor Density:** No information found.  
**Evaporation Rate:** 5.9 TTE (ether=1)  
**Viscosity:** No information found.  
**Boiling Point:** 65°C ( 149.00°F)  
**Freezing/Melting Point:** -94°C ( -137.20°F)  
**Decomposition Temperature:** No information found.  
**Solubility in water:** Soluble.  
**Specific Gravity/Density:** 0.8  
**Molecular Formula:** No information found.  
**Molecular Weight:** No information found.

**Section 10 - Stability and Reactivity**

**Chemical Stability:**

Stable under normal temperatures and pressures up to boiling point.

**Conditions to Avoid:**

Incompatible materials.

**Incompatibilities with Other Materials**

Oxidizing agents, magnesium, chromic anhydride, calcium carbide, bromine, violent or explosive reactions have been reported, cyanuric chloride, chloroform-sodium hydroxide, beryllium.

**Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide, formaldehyde.

**Hazardous Polymerization**

Has not been reported

**Section 11 - Toxicological Information**

**RTECS:**

CAS# 67-56-1: PC1400000.

CAS# 1310-73-2: WB4900000.



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### LD50/LC50:

CAS# 67-56-1:

Inhalation, rat: LC50 = 64000 ppm/4H

Oral, mouse: LD50 = 7300 mg/kg

Oral, rabbit: LD50 = 14200 mg/kg

Oral, rat: LD50 = 5628 mg/kg

Skin, rabbit: LD50 = 15800 mg/kg.

CAS# 1310-73-2:

No information found.

### Carcinogenicity:

CAS# 67-56-1: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 1310-73-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

### Epidemiology:

Sodium hydroxide-- an irritant to eyes, skin, mucous membranes.

Methanol-- eye, skin, and mucous membrane irritant; central nervous system depressant.

### Teratogenicity:

### Reproductive:

### Mutagenicity:

### Neurotoxicity:

## Section 12 - Ecological Information

No information found.

## Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

## Section 14 - Transport Information

### US DOT

**Shipping Name:** Flammable liquid, n.o.s.  
(Methanol)

**Hazard Class:** 3

**UN Number:** UN1993

**Packing Group:** PG II

## Section 15 - Regulatory Information

### US Federal

#### TSCA

CAS# 67-56-1 is listed on the TSCA Inventory.

CAS# 1310-73-2 is listed on the TSCA Inventory.



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### SARA Reportable Quantities (RQ)

CAS#67-56-1:finalRQ=5000pounds(2270kg)  
CAS#1310-73-2:finalRQ=1000pounds(454kg)

### CERCLA/SARA Section 313

This material contains Methyl alcohol (CAS#67-56-1, balance%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

### OSHA - Highly Hazardous

None of the components are on this list.

## US State

### State Right to Know

Methyl alcohol can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.  
Sodium hydroxide can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

### California Regulations

## European/International Regulations

### Canadian DSL/NDSL

CAS# 67-56-1 is listed on Canada's DSL List.  
CAS# 1310-73-2 is listed on Canada's DSL List.

### Canada Ingredient Disclosure List

CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.  
CAS# 1310-73-2 is listed on Canada's Ingredient Disclosure List.

## Section 16 - Other Information

MSDS Creation Date: September 28, 1999  
Revision Date: September 28, 2007

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