SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product form : Mixture
Product name : Sodium Hydroxide, 3.0N (3.0M)
Product code : LC24420

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : For laboratory and manufacturing use only.

1.3. Details of the supplier of the safety data sheet
LabChem Inc
Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court
Zelienople, PA 16063 - USA
T 412-826-5230 - F 724-473-0647
info@labchem.com - www.labchem.com

1.4. Emergency telephone number
Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GHS-US classification
Skin Corr. 1B H314
Eye Dam. 1 H318

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Danger
Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage
Precautionary statements (GHS-US) : P260 - Do not breathe mist, spray, vapours  
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  
P501 - Dispose of contents/container to comply with local, state and federal regulations

2.3. Other hazards
Other hazards not contributing to the classification : None.

2.4. Unknown acute toxicity (GHS-US)
No data available

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable
Full text of H-phrases: see section 16

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water (CAS No) 7732-18-5</td>
<td>89.53</td>
<td>Not classified</td>
<td></td>
</tr>
</tbody>
</table>
**Sodium Hydroxide, 3.0N (3.0M)**  
Safety Data Sheet  
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>(CAS No) 1310-73-2</td>
<td>10.47</td>
<td>Acute Tox. 4 (Dermal), H312</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1A, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 3, H402</td>
</tr>
</tbody>
</table>

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<table>
<thead>
<tr>
<th>First-aid measures general</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First-aid measures after inhalation</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First-aid measures after skin contact</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediately call a POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First-aid measures after eye contact</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First-aid measures after ingestion</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Rinse mouth.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 4.2. Most important symptoms and effects, both acute and delayed

<table>
<thead>
<tr>
<th>Symptoms/injuries</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Causes severe skin burns and eye damage.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symptoms/injuries after inhalation</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symptoms/injuries after skin contact</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Caustic burns/corrosion of the skin.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symptoms/injuries after eye contact</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Causes serious eye damage.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symptoms/injuries after ingestion</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Symptoms/injuries upon intravenous administration</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chronic symptoms</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 4.3. Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Unsuitable extinguishing media</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available. Do not use a heavy water stream.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 5.2. Special hazards arising from the substance or mixture

<table>
<thead>
<tr>
<th>Fire hazard</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not flammable.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Explosion hazard</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reactivity</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Reacts with (some) metals: release of highly flammable gases/vapours (hydrogen). Thermal decomposition generates: Corrosive vapoors.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 5.3. Advice for firefighters

<table>
<thead>
<tr>
<th>Firefighting instructions</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. In case of fire: stop leak if safe to do so. When cooling/extinguishing: no water in the substance. Avoid (reject) fire-fighting water to enter environment.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Protection during firefighting</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not enter fire area without proper protective equipment, including respiratory protection.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other information</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

<table>
<thead>
<tr>
<th>General measures</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eliminate ignition sources. Ensure adequate ventilation. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 6.1.1. For non-emergency personnel

<table>
<thead>
<tr>
<th>Protective equipment</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emergency procedures</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
</table>

#### 6.1.2. For emergency responders

<table>
<thead>
<tr>
<th>Protective equipment</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Equip cleanup crew with proper protection.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emergency procedures</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Stop leak if safe to do so. Ventilate area.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
Sodium Hydroxide, 3.0N (3.0M)
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.3. Methods and material for containment and cleaning up

For containment:
- Take up liquid spill into inert absorbent material.

Methods for cleaning up:
- Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. 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.

SECTION 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 corrosionproof 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 vapour. Do not breathe spray, vapours, mist.

Hygiene measures:
- Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures:
- Comply with applicable regulations.

Storage conditions:
- Keep container closed when not in use. 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 temperature:
- 5 - 30 °C

Prohibitions on mixed storage:
- KEEP SUBSTANCE AWAY FROM: (strong) acids. metals. metal powders.

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

Special rules on packaging:
- SPECIAL REQUIREMENTS: corrosion-proof.

Packaging materials:
- Do not store in corrodeable metal.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Sodium Hydroxide (1310-73-2)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH ACGIH Ceiling (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls:
- Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment:

Hand protection:
- Wear chemically resistant protective gloves. Wear protective gloves.

Eye protection:
- Chemical goggles or face shield.

Skin and body protection:
- Wear suitable protective clothing.

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

Thermal hazard protection:
- None necessary.

Other information:
- Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:
- Liquid

Appearance:
- Clear, colorless liquid.

Colour:
- Colourless.

Odour:
- Odorless.

Odour threshold:
- No data available
**Sodium Hydroxide, 3.0N (3.0M)**

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### pH
- ≥ 14

### Relative evaporation rate (butylacetate=1)
- No data available

### Melting point
- No data available

### Freezing point
- No data available

### Boiling point
- No data available

### Flash point
- No data available

### Self ignition temperature
- No data available

### Decomposition temperature
- No data available

### Flammability (solid, gas)
- No data available

### Vapour pressure
- No data available

### Relative vapour density at 20 °C
- No data available

### Relative density
- No data available

### Density
- 1.13 g/ml

### Solubility
- Soluble in water.

### Log Pow
- No data available

### Log Kow
- No data available

### Viscosity, kinematic
- 1.76 cSt

### Viscosity, dynamic
- No data available

### Explosive properties
- No data available

### Oxidising properties
- No data available

### Explosive limits
- No data available

### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity
Reacts with (some) metals: release of highly flammable gases/vapours (hydrogen). Thermal decomposition generates: Corrosive vapours.

#### 10.2. Chemical stability
Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions
Not established.

#### 10.4. Conditions to avoid
Incompatible materials. Extremely high or low temperatures.

#### 10.5. Incompatible materials
- Metals. Strong acids.

#### 10.6. Hazardous decomposition products
Sodium oxide. Thermal decomposition generates: Corrosive vapours.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity**: Not classified

**Sodium Hydroxide, 3.0N (3.0M)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 dermal rabbit</td>
<td>12894 mg/kg</td>
</tr>
</tbody>
</table>

**Water (7732-18-5)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>≥ 90000 mg/kg</td>
</tr>
</tbody>
</table>

**Sodium Hydroxide (1310-73-2)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 dermal rabbit</td>
<td>1350 mg/kg (Rabbit; Literature, Rabbit; Literature)</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**: Causes severe skin burns and eye damage.

**pH**: ≥ 14

**Serious eye damage/irritation**: Causes serious eye damage.

**pH**: ≥ 14

**Respiratory or skin sensitisation**: Not classified

**Germ cell mutagenicity**: Not classified

Based on available data, the classification criteria are not met.
### Sodium Hydroxide, 3.0N (3.0M)

**Safety Data Sheet**

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<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Potential Adverse human health effects and symptoms</td>
<td>Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td>Symptoms/injuries after inhalation</td>
<td>Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.</td>
</tr>
<tr>
<td>Symptoms/injuries after skin contact</td>
<td>Caustic burns/corrosion of the skin.</td>
</tr>
<tr>
<td>Symptoms/injuries after eye contact</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Symptoms/injuries upon intravenous administration</td>
<td>Not available.</td>
</tr>
<tr>
<td>Chronic symptoms</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**SECTION 12: Ecological information**

#### 12.1. Toxicity

**Ecology - general**
- The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

**Ecology - water**
- Toxic to aquatic life.

<table>
<thead>
<tr>
<th>Sodium Hydroxide, 3.0N (3.0M)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LC50 fishes 1</strong></td>
<td>434 mg/l</td>
</tr>
<tr>
<td><strong>EC50 Daphnia 1</strong></td>
<td>386 mg/l</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sodium Hydroxide (1310-73-2)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LC50 fishes 1</strong></td>
<td>45.4 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); SOLUTION &gt;=50%)</td>
</tr>
<tr>
<td><strong>EC50 Daphnia 1</strong></td>
<td>40.4 mg/l (48 h; Ceriodaphnia sp.; NOMINAL CONCENTRATION)</td>
</tr>
<tr>
<td><strong>LC50 fish 2</strong></td>
<td>189 mg/l (48 h; Leuciscus idus)</td>
</tr>
<tr>
<td><strong>TLM fish 1</strong></td>
<td>99 mg/l (48 h; Lepomis macrochirus)</td>
</tr>
<tr>
<td><strong>TLM fish 2</strong></td>
<td>125 ppm (96 h; Gambusia affinis)</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

**Sodium Hydroxide, 3.0N (3.0M)**
- No data available.

**Sodium Hydroxide (1310-73-2)**
- Biodegradability: not applicable. No (test)data on mobility of the substance available.
- Biochemical oxygen demand (BOD) Not applicable
- Chemical oxygen demand (COD) Not applicable
- ThOD Not applicable
- BOD (% of ThOD) Not applicable

#### 12.3. Bioaccumulative potential

**Sodium Hydroxide, 3.0N (3.0M)**
- No data available.

**Sodium Hydroxide (1310-73-2)**
- Bioaccumulation: not applicable.

#### 12.4. Mobility in soil
- No additional information available

#### 12.5. Other adverse effects

**Other adverse effects**
- May cause pH changes in aqueous ecological systems.

**Other information**
- Avoid release to the environment.
**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

- **Waste disposal recommendations**: Dispose of contents/container to Comply with applicable regulations. Dispose in a safe manner in accordance with local/national regulations.

- **Ecology - waste materials**: Avoid release to the environment.

**SECTION 14: Transport information**

**In accordance with DOT**

14.1. **UN number**

- UN-No.(DOT): 1824
- DOT NA no.: UN1824

14.2. **UN proper shipping name**

- DOT Proper Shipping Name: Sodium hydroxide solution
- Department of Transportation (DOT) Hazard Classes: 8 - Class 8 - Corrosive material 49 CFR 173.136
- Hazard labels (DOT): 8 - Corrosive substances

- Packing group (DOT): II - Medium Danger

- DOT Special Provisions (49 CFR 172.102): B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material. T7 - 4 178.274(d)(2) Normal............. 178.275(d)(3) TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 95 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: a = (d15 - d50) / 35*d50 Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

- DOT Packaging Exceptions (49 CFR 173.xxx): 154
- DOT Packaging Bulk (49 CFR 173.xxx): 242

- Marine pollutant: No

14.3. **Additional information**

- Other information: No supplementary information available.

- State during transport (ADR-RID): as liquid.

**Overland transport**

No additional information available

**Transport by sea**

- DOT Vessel Stowage Location: A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.
- DOT Vessel Stowage Other: 52 - Stow “separated from” acids

**Air transport**

- DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 1 L
- DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 30 L

**SECTION 15: Regulatory information**

15.1. **US Federal regulations**

- Sodium Hydroxide, 3.0N (3.0M)
- SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard
## Sodium Hydroxide, 3.0N (3.0M)

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Sodium Hydroxide (1310-73-2)

<table>
<thead>
<tr>
<th>Listed on the United States TSCA (Toxic Substances Control Act) inventory</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RQ (Reportable quantity, section 304 of EPA's List of Lists)</td>
<td>1000 lb</td>
</tr>
<tr>
<td>SARA Section 311/312 Hazard Classes</td>
<td>Immediate (acute) health hazard</td>
</tr>
</tbody>
</table>

### 15.2. International regulations

**CANADA**

<table>
<thead>
<tr>
<th>Sodium Hydroxide, 3.0N (3.0M)</th>
<th>WHMIS Classification</th>
<th>Class E - Corrosive Material</th>
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</thead>
<tbody>
<tr>
<td>Sodium Hydroxide (1310-73-2)</td>
<td>Listed on the Canadian DSL (Domestic Substances List) inventory.</td>
<td>Class E - Corrosive Material</td>
</tr>
</tbody>
</table>

### EU-Regulations

No additional information available

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

### 15.2. National regulations

**Sodium Hydroxide (1310-73-2)**

Listed on the Canadian Ingredient Disclosure List

### 15.3. US State regulations

**Sodium Hydroxide (1310-73-2)**

### SECTION 16: Other information

**Indication of changes**

Revision - See "*".

**Other information**

None.

Full text of H-phrases: see section 16:

- **Acute Tox. 4 (Dermal)**
  - Acute toxicity (dermal), Category 4

- **Acute 3**
  - Hazardous to the aquatic environment — AcuteHazard, Category 3

- **Eye Dam. 1**
  - Serious eye damage/eye irritation, Category 1

- **Skin Corr. 1A**
  - Skin corrosion/irritation, Category 1A

- **Skin Corr. 1B**
  - Skin corrosion/irritation, Category 1B

- **H312**
  - Causes severe skin burns and eye damage

- **H314**
  - Causes serious eye damage

- **H402**
  - Harmful to aquatic life

**NFPA health hazard**

3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

**NFPA fire hazard**

0 - Materials that will not burn.

**NFPA reactivity**

1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.

**HMIS III Rating**

Health: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given.

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
</tr>
</thead>
</table>
## Sodium Hydroxide, 3.0N (3.0M)
### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Flammability</th>
<th>0 Minimal Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical</td>
<td>1 Slight Hazard</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>D</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)

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