

# SODIUM HYDROXIDE 0.1MOL/L (0.1N) FOR 1000 ML MSDS



CAS-No.: MSDS

## MATERIAL SAFETY DATA SHEET (MSDS)

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

#### 1.1. Product identifier

Product form : Mixture  
:  
Product code : C110C

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

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401208 Mumbai - INDIA  
PH: +91 9820509929  
[info@spanlab.in](mailto:info@spanlab.in) [www.spanlab.in](http://www.spanlab.in)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, H314  
Category 1A

Full text of hazard classes and H-statements : see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

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### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : 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.  
P310 - Immediately call a POISON CENTER or doctor.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name             | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------------|--|---------|---|
| Water            | (CAS-No.) 7732-18-5<br>(EC-No.) 231-791-2                                | 95 - 97 | Not classified  |
| Sodium hydroxide | (CAS-No.) 1310-73-2<br>(EC-No.) 215-185-5<br>(EC Index-No.) 011-002-00-6 | 5 - 10  | Skin Corr. 1A, H314   |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.

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/doctor.

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First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects : Causes severe skin burns and eye damage.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use extinguishing media containing water.

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

No additional information available

### 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Collect spillage.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe vapours. Avoid contact with skin and eyes.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

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### 8.2. Exposure controls

|                          |  |
|--------------------------|--|
| Hand protection          | : 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. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                       |
|--|-----------------------|
| Physical state                             | : Liquid              |
| Colour                                     | : Clear Colorless.    |
| Odour                                      | : No data available   |
| Odour threshold                            | : No data available   |
| pH   | : No data available   |
| 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   |
| Auto-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 g/cm <sup>3</sup> |
| Solubility                                 | : No data available   |
| Log Pow                                    | : No data available   |
| Viscosity, kinematic                       | : No data available   |
| 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

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Direct sunlight.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

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

Serious eye damage/irritation : Serious eye damage, category 1, implicit

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

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### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 1824 |
| UN-No. (IMDG) | : 1824 |
| UN-No. (IATA) | : 1824 |
| UN-No. (ADN)  | : 1824 |
| UN-No. (RID)  | : 1824 |

### 14.2. UN proper shipping name

|                                       |   |
|---------------------------------------|---|
| Proper Shipping Name (ADR)            | : SODIUM HYDROXIDE SOLUTION                     |
| Proper Shipping Name (IMDG)           | : SODIUM HYDROXIDE SOLUTION                     |
| Proper Shipping Name (IATA)           | : Sodium hydroxide solution                     |
| Proper Shipping Name (ADN)            | : SODIUM HYDROXIDE SOLUTION                     |
| Proper Shipping Name (RID)            | : SODIUM HYDROXIDE SOLUTION                     |
| Transport document description (ADR)  | : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II, (E) |
| Transport document description (IMDG) | : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II      |
| Transport document description (IATA) | : UN 1824 Sodium hydroxide solution, 8, II      |
| Transport document description (ADN)  | : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II      |
| Transport document description (RID)  | : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II      |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 8 |
| Danger labels (ADR)              | : 8 |



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### IMDG

Transport hazard class(es) (IMDG) : 8

Danger labels (IMDG) : 8



### IATA

Transport hazard class(es) (IATA) : 8

Hazard labels (IATA) : 8



### ADN

Transport hazard class(es) (ADN) : 8

Danger labels (ADN) : 8



### RID

Transport hazard class(es) (RID) : 8

Danger labels (RID) : 8



### 14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : C5

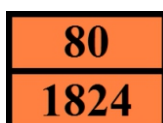
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|   |               |
|---|---------------|
| Limited quantities (ADR)                                  | : 11          |
| Excepted quantities (ADR)                                 | : E2          |
| Packing instructions (ADR)                                | : P001, IBC02 |
| Mixed packing provisions (ADR)                            | : MP15        |
| Portable tank and bulk container instructions (ADR)       | : T7          |
| Portable tank and bulk container special provisions (ADR) | : TP2         |
| Tank code (ADR)   | : L4BN        |
| Vehicle for tank carriage                                 | : AT          |
| Transport category (ADR)                                  | : 2           |
| Hazard identification number (Kemler No.)                 | : 80          |

Orange plates



|                               |      |
|-------------------------------|------|
| Tunnel restriction code (ADR) | : E  |
| EAC code                      | : 2R |

### - Transport by sea

|                                    |   |
|------------------------------------|---|
| Packing instructions (IMDG)        | : P001  |
| IBC packing instructions (IMDG)    | : IBC02   |
| Tank instructions (IMDG)           | : T7  |
| Tank special provisions (IMDG)     | : TP2   |
| EmS-No. (Fire)                     | : F-A   |
| EmS-No. (Spillage)                 | : S-B   |
| Stowage category (IMDG)            | : A   |
| Segregation (IMDG)                 | : SG35  |
| Properties and observations (IMDG) | : Colourless liquid. Colourless liquid. Reacts with ammonium salts, evolving ammonia gas. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids. |
| MFAG-No                            | : 154   |

### - Air transport

|  |            |
|--|------------|
| PCA Excepted quantities (IATA)               | : E2       |
| PCA Limited quantities (IATA)                | : Y840     |
| PCA limited quantity max net quantity (IATA) | : 0.5L     |
| PCA packing instructions (IATA)              | : 851      |
| PCA max net quantity (IATA)                  | : 1L       |
| CAO packing instructions (IATA)              | : 855      |
| CAO max net quantity (IATA)                  | : 30L      |
| Special provisions (IATA)                    | : A3, A803 |
| ERG code (IATA)                              | : 8L       |

### - Inland waterway transport

|                                   |          |
|-----------------------------------|----------|
| Classification code (ADN)         | : C5     |
| Limited quantities (ADN)          | : 1 L    |
| Excepted quantities (ADN)         | : E2     |
| Carriage permitted (ADN)          | : T      |
| Equipment required (ADN)          | : PP, EP |
| Number of blue cones/lights (ADN) | : 0      |

### - Rail transport

|                           |      |
|---------------------------|------|
| Classification code (RID) | : C5 |
|---------------------------|------|



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|   |               |
|---|---------------|
| Limited quantities (RID)                                  | : 1L          |
| Excepted quantities (RID)                                 | : E2          |
| Packing instructions (RID)                                | : P001, IBC02 |
| Mixed packing provisions (RID)                            | : MP15        |
| Portable tank and bulk container instructions (RID)       | : T7          |
| Portable tank and bulk container special provisions (RID) | : TP2         |
| Tank codes for RID tanks (RID)                            | : L4BN        |
| Transport category (RID)                                  | : 2           |
| Colis express (express parcels) (RID)                     | : CE6         |
| Hazard identification number (RID)                        | : 80          |

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

##### Germany

Reference to AwSV : Water hazard class (WGK) 3, severe hazard to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

##### Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

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### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Full text of H- and EUH-statements:

|               |  |
|---------------|--|
| Skin Corr. 1A | Skin corrosion/irritation, Category 1A   |
| H314          | Causes severe skin burns and eye damage. |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*