



# SODIUM HYDROXIDE 0.1M (0.1N) STANDARDIZED SOLUTION

## traceable to NIST

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

### □□ 3: □□□□□ □□ □ □□□

#### 3.2. □□□

| □□                          | □□□□  | %    | Regulation (EC) No.1272/2008 [CLP] □□ □□ |
|-----------------------------|---|------|--|
| WATER                       | CAS □□: 7732-18-5<br>EC □□: 231-791-2                           | 99.6 | □□□□ □□                                  |
| SODIUM HYDROXIDE PELLETS AR | CAS □□: 1310-73-2<br>EC □□: 215-185-5<br>EC □□ □□: 011-002-00-6 | 0.4  | □□ □□□ 1A, H314                          |

□□(H) □□ □ EHU □□ □□: 16 □ □□.

### □□ 4: □□□□□□

#### 4.1. □□□□ □□

□□ □□ □□ : If you feel unwell, seek medical advice.  
□□□□ □□ : □□□ □□□ □□ □□□ □□□ □□ □□□ □□□□□.  
□□□ □□□□ □□ : Wash skin with plenty of water.  
□□ □□□□ □□ : □□□□ □□□□□□ □□□□□□. □□ □□□□□. □□□□□□ □□ □□ □□ □□□□□.  
□□□ □□ : Rinse mouth out with water. □□□□ □□□ □□□□(□□) □□ □□□□□.  
First-aid measures for first aider : □□□□ □□□□ □□□ □□ □□ □□□ □□□□ □□□□.

#### 4.2. □□ □ □□□□ □□ □□□ □□ □ □□□

□□ □ □□/□□ : None under normal conditions.  
□□ □□ □ □□/□□ : None under normal conditions.  
□ □□ □ □□/□□ : None under normal conditions.  
□□ □ □□/□□ : None under normal conditions.

#### 4.3. □□□□ □□ □ □□ □□ □□ □□ □□ □□

Treat symptomatically.

### □□ 5: □□·□□□□ □□□□

#### 5.1. □□□ □□□

□□□ □□□ : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry powder. Foam. Carbon dioxide.  
□□□□ □□□□ : Do not use a heavy water stream.

#### 5.2. □□□□□□□□ □□□ □□ □□□□

□□ □□ : No fire hazard.  
□□ □□ : No direct explosion hazard.  
□□ □ □□□ □□□ □□ : Toxic fumes may be released.

#### 5.3. □□□□ □□□□ □ □□□□□

□□ □□ : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.  
□□ □□ □ □□□ : Do not attempt to take action without suitable protective equipment. □□□ □□□□□□. Complete protective clothing.

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### □□ 6: □□□□□ □□□□

#### 6.1. □□□ □□□□ □□ □□□ □□□□ □□□□

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: Wear recommended personal protective equipment.  
: Ventilate spillage area. Avoid contact with skin, eyes and clothing.

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: Do not attempt to take action without suitable protective equipment. □□□ □□ □□□□ □□□□□□. □□ □□□□ □□□ □□ 8: "□□□□ □ □□□□□"□ □□□□□.

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: Evacuate unnecessary personnel. □□□□ □□□□ □□ □□□□ □□ □□□□.

#### 6.2. □□□ □□□□ □□ □□□ □□□□

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#### 6.3. □□ □□ □□ □□

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: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

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: Take up liquid spill into absorbent material. Clean contaminated surfaces with an excess of water.

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: Dispose of materials or solid residues at an authorized site.

#### 6.4. □□ □□ □□

For further information refer to section 13.

### □□ 7: □□ □ □□□□

#### 7.1. □□□□□□

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: Ensure good ventilation of the work station. □□ □□□□ □□□□□□. □□ □ □□□ □□□ □□□□.

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: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. □ □□□ □□□ □□□ □□□, □□□□ □□□□ □□□. Always wash hands after handling the product.

#### 7.2. □□□□ □□□ □□□ □□□ □□ □□

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: Keep in a cool, well-ventilated place away from heat.

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: Store always product in container of same material as original container.

#### 7.3. □□ □□ □□

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### □□ 8: □□□□ □ □□□□□

#### 8.1. □□ □□ □□

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#### 8.2. □□□□

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Ensure good ventilation of the work station.

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□□ □□□:

Wear recommended personal protective equipment.

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□ □□:

Chemical goggles or safety glasses

### Skin protection

□□ □□:

Wear a mask

□ □□:

Protective gloves

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Wear appropriate mask

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### 9.1. □□□□ □□□□□ □□□ □□ □□

|   |                         |
|---|-------------------------|
| □□□ □□  | : □□                    |
| □□  | : Colourless.           |
| □□  | : Clear liquid.         |
| □□  | : Odourless.            |
| □□ □□   | : □□□□                  |
| □□□   | : □□□□                  |
| □□□   | : ≈ 0 °C                |
| □□ □□□□ □□□ □□                                  | : ≈ 100 °C              |
| □□□   | : □□□                   |
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| □□ □□   | : □□□□                  |
| pH  | : 12 – 13               |
| □□(□□□)   | : □□□□                  |
| □□□   | : □: Miscible in water  |
| Partition coefficient n-octanol/water (Log Kow) | : □□□□                  |
| □□□   | : □□□□                  |
| 50°C□□□□ □□□                                    | : □□□□                  |
| □□  | : ≈ 1 g/cm <sup>3</sup> |
| □□  | : □□□□                  |
| 20°C□□□□ □□ □□ □□                               | : □□□□                  |
| □□ □□   | : □□□□                  |

### 9.2. □ □□ □□□□

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### □□ 10: □□□ □□□□

#### 10.1. □□□

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. □□□ □□□

Stable under normal conditions.

#### 10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

#### 10.4. □□□ □□□

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#### 10.5. □□□ □□□

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#### 10.6. □□□ □□□□ □□□□

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### □□ 11: □□□ □□□□

#### 11.1. □□ (EC) No 1272/2008 □□□□, □□□ □□□ □□ □□

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pH: 12 – 13

#### SODIUM HYDROXIDE PELLETS AR (1310-73-2)

|    |                               |
|----|-------------------------------|
| pH | 13 – 14 (5% Aqueous solution) |
|----|-------------------------------|

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pH: 12 – 13

#### SODIUM HYDROXIDE PELLETS AR (1310-73-2)

|    |                               |
|----|-------------------------------|
| pH | 13 – 14 (5% Aqueous solution) |
|----|-------------------------------|

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#### SODIUM HYDROXIDE PELLETS AR (1310-73-2)

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#### 11.2. □□ □□ □□

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### □□ 12: □□□□ □□□□ □□

#### 12.1. □□

□□□ - □□ : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.  
□□ □□□□ □□□ : □□□□ □□  
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#### 12.2. □□□ □□□□

#### SODIUM HYDROXIDE 0.1M (0.1N) STANDARDIZED SOLUTION traceable to NIST

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#### WATER (7732-18-5)

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#### SODIUM HYDROXIDE PELLETS AR (1310-73-2)

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#### 12.3. □□ □□□

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#### 12.4. □□ □□□

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#### 12.5. PBT □ vPvB □□ □□

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#### 12.6. □□□ □□□□

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#### 12.7. □□ □□□□

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### □□ 13: □□□□ □□□□

#### 13.1. □□□ □□□□

□□ □□(□□□) : Disposal must be done according to official regulations.  
□□□ □□□ : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
□□ □□ □□ □□ : Disposal must be done according to official regulations.  
□□/□□ □□ □□□□ : Disposal must be done according to official regulations.  
□□ □□ : Do not re-use empty containers.

### □□ 14: □□□ □□□□ □□

ADR / IMDG / IATA / ADN / RID □□ □□

#### 14.1. UN □□ □□ ID □□

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#### 14.2. UN □□ □□□

□□ □□□ (ADR) : Not regulated  
□□ □□□ (IMDG) : Not regulated

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□□ □□□ (IATA) : Not regulated  
□□ □□□ (ADN) : Not regulated  
□□ □□□ (RID) : Not regulated

### 14.3. □□□□□ □□□ □□

#### ADR

□□□□□ □□□ □□ (ADR) : Not regulated

#### IMDG

□□□□□ □□□ □□ (IMDG) : Not regulated

#### IATA

□□□□□ □□□ □□ (IATA) : Not regulated

#### ADN

□□□□□ □□□ □□ (ADN) : Not regulated

#### RID

□□□□□ □□□ □□ (RID) : Not regulated

### 14.4. □□□□

□□ □□ (ADR) : Not regulated  
□□ □□ (IMDG) : Not regulated  
□□ □□ (IATA) : Not regulated  
□□ □□ (ADN) : Not regulated  
□□ □□ (RID) : Not regulated

### 14.5. □□ □□□

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### 14.6. □□□□ □□ □□ □□□□

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Not regulated

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Not regulated

### 14.7. □□□□□□ (IMO) □□ □□ □□ □□

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## □□ 15: □□ □□□□

### 15.1. □□, □□ □□□□ □□□□ □□ □□□□ □□ □□ □□/□□

EU □□

REACH □□□ XVII (□□ □□)

REACH □□□ XVII (□□ □□) □□ □□ □□ □□ □□



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### 15.2. □□ □□ □□□□ □□

No chemical safety assessment has been carried out

### □□ 16: □□ □□ □□□□

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|-------------|---|
| ACGIH       | American Conference of Government Industrial Hygienists   |
| ADN         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE         | Acute Toxicity Estimate   |
| BCF         | Bioconcentration factor   |
| BLV         | □□ □□ □   |
| BOD         | Biochemical oxygen demand (BOD)   |
| CAS □□      | □□□□ □□ □□ □□(CAS)  |
| CLP         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| COD         | □□□ □□ □□□  |
| CSA         | □□ □□ □□□ □□  |
| DMEL        | Derived Minimal Effect level  |
| DNEL        | □□ □□□ □□   |
| EC □□       | □□ □□□ □□   |
| EC50        | Median effective concentration  |
| ED          | □□□ □□□□  |
| EN          | □□ □□   |
| EWC         | European waste catalogue  |
| IARC        | International Agency for Research on Cancer   |
| IATA        | International Air Transport Association   |
| IMDG        | International Maritime Dangerous Goods  |
| LC50        | Median lethal concentration   |
| LD50        | Median lethal dose  |
| LOAEL       | Lowest Observed Adverse Effect Level  |
| Log Kow     | Partition coefficient n-octanol/water (Log Kow)   |
| Log Pow     | Partition coefficient n-octanol/water (Log Pow)   |
| MAK         | maximum workplace concentration   |
| NOAEC       | No-Observed Adverse Effect Concentration  |
| NOAEL       | No-Observed Adverse Effect Level  |
| NOEC        | No-Observed Effect Concentration  |
| N.O.S.      | Not Otherwise Specified   |
| OECD        | Organisation for Economic Co-operation and Development  |
| OEL         | □□□ □□ □□   |

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|-----------|--|
| OSHA      | Occupational Safety & Health Administration                                  |
| PBT       | Persistent Bioaccumulative Toxic   |
| PNEC      | □□ □□□ □□  |
| PPE       | □□ □□□   |
| RID       | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS       | □□□□□□□□   |
| STP       | Sewage treatment plant   |
| TF        | □□□ □□   |
| ThOD      | Theoretical oxygen demand (ThOD)   |
| TLM       | Median Tolerance Limit   |
| TWA       | Time Weighted Average  |
| COV       | Volatile Organic Compounds   |
| vPvB      | Very Persistent and Very Bioaccumulative                                     |
| UFI       | □□ □□ □□□  |

| □H□ □ EUH□ □□: |                              |
|----------------|------------------------------|
| □□ □□□ 1A      | □□ □□□/□□ □□□, □□ 1, □□□□ 1A |
| H314           | □□□ □□ □□□ □ □□□ □□□.        |

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