

# Material Safety Data Sheet



**SODIUM HYDROXIDE PELLETS AR**

VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

**Product Code : 25800**

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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name : SODIUM HYDROXIDE PELLETS AR  
Product code : 25800  
Identification of the product : SODIUM HYDROXIDE PELLETS AR  
CAS No : 1310-73-2  
EC Index-No. : 011-002-00-6  
EC No. : 215-185-5  
Synonyms : Caustic Soda

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

Identified uses : Laboratory chemicals, Manufacture of substances

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

#### Company identification

MOLYCHEM INDIA LLP  
Office: Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)  
Tel: +91 22 4066 8111, 2205 7772 .  
Email : [info@molychem.net](mailto:info@molychem.net)  
Works: Plot No. B/9, Badlapur M.I.D.C.,  
OPP.Shobhavat Textile Co., Kulgaon, Badlapur (E),  
Dist.-Thane-421 503.

### 1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 1, Sub- H314  
Category 1A

Full text of H- and EUH-statements: see section 16

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

Causes severe skin burns and eye damage.

### 2.2. Label elements

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

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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 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 doctor.

## 2.3. Other hazards

No additional information available

## 3. Composition/information on ingredients

### 3.1. Substances

Name : SODIUM HYDROXIDE PELLETS AR

CAS-No : 1310-73-2

### 3.2. Mixtures

Not applicable

## 4. First aid measures

### 4.1. Description of first aid measures

First-aid measures general

: Call a physician immediately.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. 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. Call a physician immediately

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. Call a physician immediately.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Immediately call

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a POISON CENTER/doctor. Do not induce vomiting.  
Call a physician immediately.

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

Symptoms/effects : Causes severe skin burns and eye damage.  
Symptoms/effects after skin contact : Burns  
Symptoms/effects after eye contact : Serious damage to eyes.  
Symptoms/effects after ingestion : Burns.

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

Treat symptomatically.

## 5. Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water spray. Dry powder. Foam.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## 6. Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapours.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective equipment as

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Emergency procedures required. For further information refer to section 8:  
"Exposure controls/ personal protection"  
: Stop release.

## **6.2. Environmental precautions**

Avoid release to the environment.

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

Methods for cleaning up : Mechanically recover the product. Clean up immediately by sweeping or vacuum.  
Other information : Dispose of materials or solid residues at an authorized site.

## **6.4. Reference to other sections**

For further information refer to section 13.

## **7. Handling and storage**

### **7.1. Precautions for safe handling**

Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe dust, fume, gas, mist, spray, vapours. Avoid contact during pregnancy/while nursing. Avoid contact with skin and eyes. Wear personal protective equipment.  
Hygiene measures : Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product

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

Technical measures : Comply with applicable regulations.  
Storage conditions : Store in original container. Store in a dry place. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.  
Storage away from : Direct sunlight. Air contact. Moisture.

### **7.3. Specific end use(s)**

No additional information available

## **8. Exposure controls/personal protection**

### **8.1. Control parameters**

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## 8.1.1. National occupational exposure and biological limit values

No additional information available

## 8.1.2. Recommended monitoring procedures

No additional information available

## 8.1.3. Air contaminants formed

No additional information available

## 8.1.4. DNEL and PNEC

No additional information available

## 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

|                        |                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------|
| Eye protection         | : Chemical goggles or safety glasses                                                      |
| Hand protection        | : Wear protective gloves                                                                  |
| Skin protection        | : Wear suitable protective clothing                                                       |
| Respiratory protection | : Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection. |
| Thermal hazards        | : No additional information available                                                     |

### 8.2.3. Environmental exposure controls

Avoid release to the environment

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                           |                                 |
|---------------------------|---------------------------------|
| Physical state            | : Solid                         |
| Appearance                | : deliquescent pellets.         |
| Molecular mass            | : 40 g/mol                      |
| Colour                    | : White                         |
| Odour                     | : Odourless                     |
| Odour threshold           | : No data available             |
| pH                        | : 13 – 14 (5% Aqueous solution) |
| Relative evaporation rate | : No data available             |
| Melting point             | : 318 °C                        |
| Freezing point            | : Not applicable                |
| Boiling point             | : 1390 °C at 760 mmHg           |
| Flash point               | : Not applicable                |

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|                                                 |                                  |
|-------------------------------------------------|----------------------------------|
| Auto-ignition temperature                       | : Not applicable                 |
| Decomposition temperature                       | : No data available              |
| Flammability (solid, gas)                       | : Non flammable                  |
| Vapour pressure                                 | : < 24 hPa at 20 °C              |
| Relative vapour density at 20 °C                | : 1.38 (Air = 1.0)               |
| Relative density                                | : No data available              |
| Density                                         | : 2.13 g/cm <sup>3</sup> at 20°C |
| Solubility                                      | : Water: 111 g/100ml             |
| Partition coefficient n-octanol/water (Log Pow) | : No data available              |
| Viscosity, kinematic                            | : Not applicable                 |
| Viscosity, dynamic                              | : No data available              |
| Explosive properties                            | : No data available              |
| Oxidising properties                            | : No data available              |
| Explosive limits                                | : Not applicable                 |

## 9.2. Other information

No additional information available

## 10. Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

## 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

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|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Acute toxicity (dermal)           | : Not classified                      |
| Acute toxicity (inhalation)       | : Not classified                      |
| Skin corrosion/irritation         | : Causes severe skin burns            |
| Additional information            | : Not classified                      |
| Serious eye damage/irritation     | : Assumed to cause serious eye damage |
| 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                      |

## 12. Ecological information

### 12.1. Toxicity

|                                                           |                                                                                 |
|-----------------------------------------------------------|---------------------------------------------------------------------------------|
| Ecology - general                                         | Before neutralisation, the product may represent a danger to aquatic organisms. |
| Hazardous to the aquatic environment, short-term (acute)  | Not classified                                                                  |
| Hazardous to the aquatic environment, long-term (chronic) | Not classified                                                                  |

### 12.2. Persistence and degradability

No additional information available

### 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

## 13. Disposal considerations

### 13.1. Waste treatment methods

|                         |                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions |
|-------------------------|----------------------------------------------------------------------------------------------|

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Product/Packaging disposal  
recommendations

: Dispose of contents/container to a licensed hazardous-  
waste disposal contractor or collection site except for  
empty clean containers which can be disposed of as  
nonhazardous waste.

## 14. Transport information

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

### 14.1. UN number

UN-No. (ADR) : UN 1823  
UN-No. (IMDG) : UN 1823  
UN-No. (IATA) : UN 1823  
UN-No. (ADN) : UN 1823  
UN-No. (RID) : UN 1823

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : SODIUM HYDROXIDE, SOLID  
Proper Shipping Name (IMDG) : SODIUM HYDROXIDE, SOLID  
Proper Shipping Name (IATA) : Sodium hydroxide, solid  
Proper Shipping Name (ADN) : SODIUM HYDROXIDE, SOLID  
Proper Shipping Name (RID) : SODIUM HYDROXIDE, SOLID  
Transport document description (ADR) : UN 1823 SODIUM HYDROXIDE, SOLID, 8, II, (E)  
Transport document description (IMDG) : UN 1823 SODIUM HYDROXIDE, SOLID, 8, II  
Transport document description (IATA) : UN 1823 Sodium hydroxide, solid, 8, II  
Transport document description (ADN) : UN 1823 SODIUM HYDROXIDE, SOLID, 8, II  
Transport document description (RID) : UN 1823 SODIUM HYDROXIDE, SOLID, 8, II

### 14.3. Transport hazard class(es)

#### ADR

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

#### IMDG

:  
Transport hazard class(es) (IMDG) : 8  
Danger labels (IMDG) : 8

#### IATA

Transport hazard class(es) (IATA) : 8  
Danger labels (IATA) : 8

#### ADN

Transport hazard class(es) (ADN) : 8  
Danger labels (ADN) : 8

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## **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) : C6

Limited quantities (ADR) : 1kg

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P002, IBC08

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container

instructions (ADR) : T3

Portable tank and bulk container special

provisions (ADR) : TP33

Tank code (ADR) : SGAN

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Hazard identification number (Kemler No.) : 80

Tunnel restriction code (ADR) : E

EAC code : 2W

### **Transport by sea**

Limited quantities (IMDG) : 1 kg

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P002

IBC packing instructions (IMDG) : IBC08

Tank instructions (IMDG) : T3

Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-B

Stowage category (IMDG) : A

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MFAG-No : 154  
**Air transport**  
PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y844  
PCA limited quantity max net quantity (IATA) : 5kg  
PCA packing instructions (IATA) : 859  
PCA max net quantity (IATA) : 15kg  
CAO packing instructions (IATA) : 863  
CAO max net quantity (IATA) : 50kg  
ERG code (IATA) : 8L  
**Inland waterway transport**  
Classification code (ADN) : C6  
Limited quantities (ADN) : 1 kg  
Excepted quantities (ADN) : E2  
Equipment required (ADN) : PP, EP  
Number of blue cones/lights (ADN) : 0  
**Rail transport**  
Classification code (RID) : C6  
Limited quantities (RID) : 1kg  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P002, IBC08  
Mixed packing provisions (RID) : MP10  
Portable tank and bulk container instructions (RID) : T3  
Portable tank and bulk container special provisions (RID) : TP33  
Tank codes for RID tanks (RID) : SGAN  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE10  
Hazard identification number (RID) : 80

## **14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

## **15. Regulatory information**

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

#### **15.1.1 EU-Regulations**

No REACH Annex XVII restrictions

SODIUM HYDROXIDE PELLETS is not on the REACH Candidate List

SODIUM HYDROXIDE PELLETS is not on the REACH Annex XIV List

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SODIUM HYDROXIDE PELLETS is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals

SODIUM HYDROXIDE PELLETS is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

## 15.1.2. National regulations

### Germany

Water hazard class (WGK)

: WGK 1, Slightly hazardous to water  
(Classification according to AwSV; ID No. 142)

Hazardous Incident Ordinance (12. BImSchV)

: Is not subject of the Hazardous Incident Ordinance  
(12. BImSchV)

### Netherlands

SZW-lijst van kankerverwekkende stoffen

: The substance is not listed

SZW-lijst van mutagene stoffen

: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting  
giftige stoffen – Borstvoeding

: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting  
giftige stoffen – Vruchtbaarheid

: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting  
giftige stoffen – Ontwikkeling

: The substance is not listed

### Denmark

Danish National Regulations

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

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## 16. Other information

### Abbreviations and acronyms

|     |                                                                                                 |
|-----|-------------------------------------------------------------------------------------------------|
| 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 | Biological limit value                                                                          |
| BOD | Biochemical oxygen demand                                                                       |
| COD | Chemical oxygen demand                                                                          |

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Works : Unit I - Plot No. B/9, Unit II - Plot No. B/11, Badlapur M.I.D.C., Opp. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.

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# Material Safety Data Sheet



**SODIUM HYDROXIDE PELLETS AR**

VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

**Product Code : 25800**

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|         |                                                                              |
|---------|------------------------------------------------------------------------------|
| COD     | Chemical oxygen demand                                                       |
| DMEL    | Derived Minimal Effect level                                                 |
| DNEL    | Derived-No Effect Level                                                      |
| EC-No.  | European Community number                                                    |
| EC50    | Median effective concentration                                               |
| EN      | European Standard                                                            |
| 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                                         |
| NOAEC   | No-Observed Adverse Effect Concentration                                     |
| NOAEL   | No-Observed Adverse Effect Level                                             |
| NOEC    | No-Observed Effect Concentration                                             |
| OECD    | Organisation for Economic Co-operation and Development                       |
| OEL     | Occupational Exposure Limit                                                  |
| PBT     | Persistent Bioaccumulative Toxic                                             |
| PNEC    | Predicted No-Effect Concentration                                            |
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS     | Safety Data Sheet                                                            |
| STP     | Sewage treatment plant                                                       |
| ThOD    | Theoretical oxygen demand (ThOD)                                             |
| TLM     | Median Tolerance Limit                                                       |
| VOC     | Volatile Organic Compounds                                                   |
| CAS-No. | Chemical Abstract Service number                                             |
| N.O.S.  | Not Otherwise Specified                                                      |
| vPvB    | Very Persistent and Very Bioaccumulative                                     |
| ED      | Endocrine disrupting properties                                              |
|         |                                                                              |

## Full text of H- and EUH-statements

|              |                                                                        |
|--------------|------------------------------------------------------------------------|
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2                          |
| Flam. Liq. 2 | Flammable liquids, Category 2                                          |
| STOT SE 3    | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H225         | Highly flammable liquid and vapour.                                    |
| H319         | Causes serious eye irritation.                                         |
| H336         | May cause drowsiness or dizziness.                                     |
| EUH066       | Repeated exposure may cause skin dryness or cracking.                  |

Safety Data Sheet (SDS), EU This information is based on our current knowledge and is intended to

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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.

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