

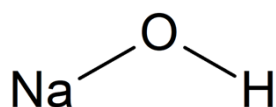
## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Reference number: 05898  
Issue date: 19-10-2021 Revision date: 19-10-2021 Supersedes version of: 07-01-2019 Version: 1.0

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

### 1.1. Product identifier

|                    |                                       |
|--------------------|---------------------------------------|
| Product form       | : Substance                           |
| Trade name         | : SODIUM HYDROXIDE PELLETS EXTRA PURE |
| EC Index-No.       | : 011-002-00-6                        |
| EC-No.             | : 215-185-5                           |
| CAS-No.            | : 1310-73-2                           |
| Product code       | : 05898                               |
| Formula            | : NaOH                                |
| Chemical structure | :                                     |



Synonyms : Caustic Soda

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

#### 1.2.1. Relevant identified uses

|                                  |   |
|----------------------------------|---|
| Industrial/Professional use spec | : Industrial<br>For professional use only           |
| Use of the substance/mixture     | : Laboratory chemicals<br>Manufacture of substances |

#### 1.2.2. Uses advised against

No additional information available

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

LOBA CHEMIE PVT.LTD.  
107 Wode House Road, Jehangir Villa, Colaba  
400005 Mumbai - INDIA  
T +91 22 6663 6663 - F +91 22 6663 6699  
[info@lobachemie.com](mailto:info@lobachemie.com) - [www.lobachemie.com](http://www.lobachemie.com)

### 1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

## SECTION 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 H314  
Full text of H-statements: see section 16

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

Causes severe skin burns and eye damage.

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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 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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type :

Mono-constituent

Name :

SODIUM HYDROXIDE PELLETS EXTRA PURE

CAS-No. :

1310-73-2

EC-No. :

215-185-5

EC Index-No. :

011-002-00-6

### 3.2. Mixtures

Not applicable

## SECTION 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 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 :

Causes serious eye damage. Serious damage to eyes.

Symptoms/effects after ingestion :

Burns.

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

Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Water spray. 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.

### SECTION 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. Do not get in eyes, on skin, or on clothing. 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 required. For further information refer to section 8: "Exposure controls/personal protection".

#### 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. Clear up rapidly by scoop 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.

### SECTION 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. Keep container tightly closed. Store in a dry place. Protect from moisture. Store locked up. Store in a well-ventilated place. Keep cool.

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

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 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

###### Appropriate engineering controls:

Ensure good ventilation of the work station.

##### 8.2.2. Personal protection equipment

###### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

###### Eye protection:

Safety glasses

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Wear suitable protective clothing

###### Hand protection:

Protective gloves

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

Wear appropriate mask

##### 8.2.2.4. Thermal hazards

No additional information available

##### 8.2.3. Environmental exposure controls

###### Environmental exposure controls:

Avoid release to the environment.

### SECTION 9: Physical and chemical properties

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

|                |                  |
|----------------|------------------|
| Physical state | : Solid          |
| Appearance     | : White pellets. |
| Molecular mass | : 40 g/mol       |
| Colour         | : White.         |

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|   |                                  |
|---|----------------------------------|
| Odour   | : odourless.                     |
| Odour threshold                                 | : No data available              |
| pH  | : 13 – 14 (5% Aqueous solution)  |
| Relative evaporation rate (butylacetate=1)      | : No data available              |
| Melting point                                   | : 318 °C                         |
| Freezing point                                  | : Not applicable                 |
| Boiling point                                   | : 1390 °C at 760 mmHg            |
| Flash point                                     | : Not applicable                 |
| 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

## SECTION 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.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                                   |  |
|-----------------------------------|--|
| Acute toxicity (oral)             | : Not classified   |
| Acute toxicity (dermal)           | : Not classified   |
| Acute toxicity (inhalation)       | : Not classified   |
| Skin corrosion/irritation         | : Causes severe skin burns.<br>pH: 13 – 14 (5% Aqueous solution)           |
| Serious eye damage/irritation     | : Assumed to cause serious eye damage<br>pH: 13 – 14 (5% Aqueous solution) |
| Respiratory or skin sensitisation | : Not classified   |

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|                        |                  |
|------------------------|------------------|
| 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 |

### SODIUM HYDROXIDE PELLETS EXTRA PURE (1310-73-2)

|                      |                |
|----------------------|----------------|
| Viscosity, kinematic | Not applicable |
|----------------------|----------------|

## SECTION 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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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

## SECTION 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 |
|----------------------------|---------------------------|

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|                                       |   |
|---------------------------------------|---|
| 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



#### RID

Transport hazard class(es) (RID) : 8

Danger labels (RID) : 8



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### 14.4. Packing group

|                      |      |
|----------------------|------|
| Packing group (ADR)  | : II |
| Packing group (IMDG) | : II |
| Packing group (IATA) | : II |
| Packing group (ADN)  | : II |
| Packing group (RID)  | : II |

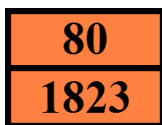
### 14.5. Environmental hazards

|                               |  |
|-------------------------------|--|
| 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 |
| Special packing provisions (ADR)                          | : B4          |
| 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           |
| Special provisions for carriage - Packages (ADR)          | : V11         |
| Hazard identification number (Kemler No.)                 | : 80          |
| Orange plates   | :             |



|                               |      |
|-------------------------------|------|
| 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  |
| IBC special provisions (IMDG)      | : B21, B4  |
| Tank instructions (IMDG)           | : T3   |
| Tank special provisions (IMDG)     | : TP33   |
| EmS-No. (Fire)                     | : F-A  |
| EmS-No. (Spillage)                 | : S-B  |
| Stowage category (IMDG)            | : A  |
| Segregation (IMDG)                 | : SGG18, SG35  |
| Properties and observations (IMDG) | : White pellets, flakes, lumps or solid blocks, deliquescent. Reacts with ammonium salts, evolving ammonia gas. In the presence of moisture, corrosive to aluminium, zinc and tin. 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)                | : 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 |



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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  
Special packing provisions (RID) : B4  
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  
Special provisions for carriage – Packages (RID) : W11  
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

## SECTION 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 EXTRA PURE is not on the REACH Candidate List

SODIUM HYDROXIDE PELLETS EXTRA PURE is not on the REACH Annex XIV List

SODIUM HYDROXIDE PELLETS EXTRA PURE 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 EXTRA PURE 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

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### SECTION 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 (BOD)   |
| COD                        | Chemical oxygen demand (COD)  |
| 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 |                                       |
|------------------------------------|---------------------------------------|
| Skin Corr. 1                       | Skin corrosion/irritation, Category 1 |

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### Full text of H- and EUH-statements

|      |  |
|------|--|
| H314 | Causes severe skin burns and eye damage. |
|------|--|

Safety Data Sheet (SDS), EU

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.