



Safety Data Sheet

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Section 1 - Identification

1.1 Product Identifier

Product Name : Sodium Hydroxide Solution
CAS No. : 1310-73-2

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

Identified uses : Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Company : 9920 Pacific Heights Blvd
Suit 150
San Diego
California -92121

1.4 Emergency Telephone number

Emergency phone : +1 (858) 245-0283

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, Sub-Category 1A H314

Full text of H-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]

Hazard Pictograms
(CLP)



GHS05

Signal word (CLP) Warning

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 Substance

Substance type	: Mono-constituent
Name	: Sodium Hydroxide Pellets
CAS	: 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 after inhalation

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 Indications of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5: Firefighting measures

5.1 Extinguishing Media

Suitable extinguishing media

dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). Water spray. Dry powder. Foam.

Unsuitable extinguishing media

Do not use a heavy water stream

5.2 Special hazard 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. 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 required. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures

Stop release.

6.2 Environment precautions

Avoid release to the environment.

6.3 Methods and materials 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. Protect from moisture. Store locked up. Store in a well-ventilated place. Keep cool.

7.3 Specific end use(s)

No additional information available.

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

No additional information available

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 Formula	: NaOH
Molecular mass	: 40 g/mol
Colour	: White
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 ³ 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

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

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.
pH: 13 – 14 (5% Aqueous solution)

Serious eye damage/irritation : Assumed to cause serious eye damage.
pH: 13 – 14 (5% Aqueous solution)

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
Sodium Hydroxide Pellets (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 Endocrine disrupting properties

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: Transportation information

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



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
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)

: 1kg

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
ERG code (IATA)	: 8L
Inland waterway transport	
Classification code (ADN)	: C6
Limited quantities (ADN)	: 1KG
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 is not on the REACH Candidate List

SODIUM HYDROXIDE PELLETS is not on the REACH Annex XIV List

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, Significantly hazardous to water
(Classification according to AwSV; ID No. 142)

Hazardous Incident Ordinance (12. BlmSchV)

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

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

Section 16: Other information

Further information

The information and recommendations in this SDS are to the best of our knowledge, information and belief accurate at the time of publication. Although utmost care is been taken in composition of this text, Highpuric LLC cannot be held responsible for any damage resulting from any possible error in this publication.