

Page 1/8

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 26.04.2022 Version number 3.00 Revision: 26.04.2022

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

· Product identifier

· Trade name: Sodium hydroxide, pellets

· Article number: 2450

• CAS Number: 1310-73-2 • EC number: 215-185-5

· Index number: 011-002-00-6

- · Registration number The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

CAELO

Caesar & Loretz GmbH

Herderstr. 31 D-40721 Hilden GERMANY

· Further information obtainable from:

E-mail: info@caelo.de

Tel.: +49210349940 (during regular opening hours)

Emergency telephone number:

Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn

Tel: +49 (0) 228-192400

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

· Hazard pictograms





Page 2/8

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 26.04.2022 Version number 3.00 Revision: 26.04.2022

Trade name: Sodium hydroxide, pellets

(Contd. of page 1)

- · Signal word Danger
- · Hazard statements

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

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/doctor.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable. · **vPvB:** Not applicable.

3 Composition/information on ingredients

- · Chemical characterisation: Substances
- · CAS No. Description

1310-73-2 sodium hydroxide

- · Identification number(s)
- · **EC number:** 215-185-5
- · Index number: 011-002-00-6
- · INCI-Name Sodium hydroxide

4 First aid measures

- · Description of first aid measures
- · After inhalation:

Bring the person out of the contaminated area to fresh air.

Call a doctor immediately.

Show product-label or this MSDS.

· After skin contact:

Remove contaminated clothing immediately.

Wash with polyethylene glycol 400 and then rinse with plenty amounts of water.

· After eye contact:

Rinse opened eye for several minutes under running water.

Seek medical advice, even if no immediate symptoms are observed.

- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

(Contd. on page 3)



Page 3/8

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 26.04.2022 Version number 3.00 Revision: 26.04.2022

Trade name: Sodium hydroxide, pellets

(Contd. of page 2)

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

Special hazards arising from the substance or mixture

not combustible

Prefere dry extinguishing media. If water is used, take care of the generated solution (Avoid contact with aluminium alloys, hydrogen gas can be generated, Explosion hazard!).

- Advice for firefighters
- · Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- Additional information

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with the substance.

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling Caution: strong heating in contact with water.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: tin.

Unsuitable material for receptacle: zinc.

- Information about storage in one common storage facility: Do not store together with acids.
- · Further information about storage conditions: No further information
- · Storage class: TRHS 510: 8 B Non-combustible corrosive substances
- · Specific end use(s) No further relevant information available.

(Contd. on page 4)



Page 4/8

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 26.04.2022 Version number 3.00 Revision: 26.04.2022

Trade name: Sodium hydroxide, pellets

(Contd. of page 3)

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- Ingredients with limit values that require monitoring at the workplace:

CAS: 1310-73-2 sodium hydroxide

WEL (Great Britain) Short-term value: 2 mg/m3

MAK (Germany) vgl.Abschn.llb

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · Respiratory protection: Dust protection mask.
- Protection of hands: Protective gloves
- · Material of gloves

Rubber gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Solid

Pellets White

Colour: White
Odour: Odourless
Odour threshold: Not determined.

· pH-value (50 g/l) at 20 °C:

· Change in condition

Melting point/freezing point: 323 °C Initial boiling point and boiling range: 1,388 °C

· Flash point: Not applicable.

• Flammability (solid, gas): Product is not flammable.

· **Decomposition temperature:** Not determined.

(Contd. on page 5)



Page 5/8

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 26.04.2022 Version number 3.00 Revision: 26.04.2022

Trade name: Sodium hydroxide, pellets

(Contd. of page 4)

· Auto-ignition temperature: Not determined.

• Explosive properties: Product does not present an explosion hazard.

· Explosion limits:

Lower:Not determined.Upper:Not determined.

• Vapour pressure: 0 hPa

Density at 20 °C:
 Relative density
 Vapour density
 Evaporation rate
 2.13 g/cm³
 Not determined.
 Not applicable.

· Solubility in / Miscibility with

water: Soluble.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

Dynamic: Not applicable. **Kinematic:** Not applicable.

Other information
 No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials:

Acids

Metals

organic substances

combustible substances

nitrile

ammoniumcompounds

phenols

- · Hazardous decomposition products: No dangerous decomposition products known.
- Additional information:

Extremely hygroscopic; exothermic solution process in water, keep away from metals, glass, animal/plant tissue.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

(Contd. on page 6)



Page 6/8

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 26.04.2022 Version number 3.00 Revision: 26.04.2022

Trade name: Sodium hydroxide, pellets

(Contd. of page 5)

· LD/LC50 values relevant for classification:

Oral LD50 2,000 mg/kg (rabbit) LDL0 500 mg/kg (rabbit) LD50 (i.p.) 40 mg/kg (mouse)

- Primary irritant effect:
- Skin corrosion/irritation

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes severe skin burns and eye damage.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

- · Toxicity
- · Aquatic toxicity:

LC50 189 mg/L (Fish)

EC50 40.4 mg/L (invertebrates)

- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

(Contd. on page 7)



Page 7/8

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 26.04.2022 Version number 3.00 Revision: 26.04.2022

Trade name: Sodium hydroxide, pellets

(Contd. of page 6)

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to local regulations.

*14 Transport information

· UN-Number

· ADR, IMDG, IATA UN1823

· UN proper shipping name

ADR
 IMDG
 IATA
 1823 SODIUM HYDROXIDE, SOLID
 SODIUM HYDROXIDE, SOLID
 Sodium hydroxide, solid

· Transport hazard class(es)

· ADR, IMDG, IATA

· Class 8 Corrosive substances.

· Label 8

· Packing group

· ADR, IMDG, IATA

• Environmental hazards: Not applicable.

· Special precautions for user Warning: Corrosive substances.

· Hazard identification number (Kemler code): 80 · EMS Number: F-A,S-B

• Segregation groups SGG18 - Alkalis

Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

· Transport/Additional information:

· ADR

Limited quantities (LQ)
 Transport category
 Tunnel restriction code

·IMDG

· Limited quantities (LQ) 1 kg

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · REGULATION (EC) No 1907/2006 ANNEX XVII Not listed
- · National regulations:
- · Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)

TRHS 510: 8 B Non-combustible corrosive substances

(Contd. on page 8)



Page 8/8

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 26.04.2022 Version number 3.00 Revision: 26.04.2022

Trade name: Sodium hydroxide, pellets

(Contd. of page 7)

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- · Reasons for alterations This version replaces all old versions.
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Corr. 1A: Skin corrosion/irritation – Category 1A

* Data compared to the previous version altered.

GB