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

Printing date 26.04.2022

Version number 5.00

Revision: 26.04.2022

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

- · Product identifier
- · Trade name: Sodium hydroxide pearls, technical
- · Article number: 2451
- · 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 Chemicals for synthesis
- · 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.
- Skill Coll. TA H314 Causes severe skill 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





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Signal word		
· Hazard stat		
	es severe skin burns and eye damage.	
	ary statements	
	+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 hazar • Results of I • PBT: Not ap • vPvB: Not a	PBT and vPvB assessment oplicable.	
• CAS No. De 1310-73-2 s	odium hydroxide	
· Identificatio	on number(s)	
· EC number		
	<b>ber:</b> 011-002-00-6	
· INCI-Name	Sodium hydroxide	
First aid r	neasures	
- Description	of first aid measures	
· After inhala	tion:	
Bring the pe	rson out of the contaminated area to fresh air.	
Call a doctor immediately.		
	ct-label or this MSDS.	
· After skin c		
	ntaminated clothing immediately.	
	olyethylene glycol 400 and then rinse with plenty amounts of water.	
· After eye co		
	ed eye for several minutes under running water.	
	al advice, even if no immediate symptoms are observed.	
	wing: Drink plenty of water and provide fresh air. Call for a doctor immediately.	
<ul> <li>Information</li> </ul>		
-	tant 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.



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#### **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.

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	ection
• Additional information about design of	technical facilities: No further data; see item 7.
<ul> <li>Control parameters</li> <li>Ingredients with limit values that requir</li> <li>CAS: 1310-73-2 sodium hydroxide</li> <li>WEL (Great Britain) Short-term value: 2 m</li> <li>MAK (Germany) vgl.Abschn.Ilb</li> </ul>	
quality and varies from manufacturer to ma • Penetration time of glove material The exact break through time has to be fo be observed.	d feed. inated clothing of work. nask. not only depend on the material, but also on further marks of
• Eye protection: Tightly sealed goggles 9 Physical and chemical properties	
<ul> <li>Information on basic physical and chen</li> <li>General Information</li> <li>Appearance:</li> </ul>	nical properties
Form:	Solid Pearls
	Solid Pearls White Odourless Not determined.
Form: Colour: · Odour:	Pearls White Odourless
Form: Colour: · Odour: · Odour threshold:	Pearls White Odourless Not determined. 14 323 °C
Form: Colour: Odour: Odour threshold: PH-value (50 g/l) at 20 °C: Change in condition Melting point/freezing point:	Pearls White Odourless Not determined. 14 323 °C
Form: Colour: Odour: Odour threshold: PH-value (50 g/l) at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling range:	Pearls White Odourless Not determined. 14 323 °C 1,388 °C



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· Auto-ignition temperature:	Not determined.	
· Explosive properties:	Product does not present an explosion hazard.	
<ul> <li>Explosion limits: Lower: Upper:</li> </ul>	Not determined. Not determined.	
· Vapour pressure:	0 hPa	
<ul> <li>Density at 20 °C:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	2.13 g/cm³ Not determined. Not applicable. Not applicable.	
<ul> <li>Solubility in / Miscibility with water:</li> </ul>	Soluble.	
· Partition coefficient: n-octanol/water:	Not determined.	
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> </ul>	Not applicable. 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.



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#### · LD/LC50 values relevant for classification:

#### CAS: 1310-73-2 sodium hydroxide

- 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.
- $\cdot$  Carcinogenicity Based on available data, the classification criteria are not met.
- $\cdot$  Reproductive toxicity Based on available data, the classification criteria are not met.
- $\cdot$  STOT-single exposure Based on available data, the classification criteria are not met.
- $\cdot$  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:

#### CAS: 1310-73-2 sodium hydroxide

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.



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#### 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	0111020
· ADR	1823 SODIUM HYDROXIDE, SOLID
·IMDG	SODIUM HYDROXIDE, SOLID
	Sodium hydroxide, solid
<ul> <li>Transport hazard class(es)</li> </ul>	
· 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.
<ul> <li>Hazard identification number (Kemler code EMS Number:</li> </ul>	F-A,S-B
· Segregation groups	SGG18 - Alkalis
• Transport in bulk according to Annex II of	SGG TO - Alkalis
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
· Limited quantities (LQ)	1 kg
· Transport category	2
· Tunnel restriction code	Ē
·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



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#### Trade name: Sodium hydroxide pearls, technical

• 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.

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 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
 vvvB: very Persistent and very Bioaccumulative
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A
 \* Data compared to the previous version altered.