

SAFETY DATA SHEET

Caustic Soda Pearl

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Issued: 08/11/2021
Revision No: 3

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product name: SODIUM HYDROXIDE SOLID
REACH registered number(s): 01-2119457892-27-XXXX
CAS number: 1310-73-2
EINECS number: 215-185-5
Index number: 011-002-00-6
Synonyms: CAUSTIC SODA

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

Use of substance / mixture: Vegetable oil alkali-refining reagent. Sodium salt formation agent. Industrial cleaning agent. ion-exchange resins regeneration. Soap raw material. Stripping pH control. Reagent (petrochem desulphurisation).

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification under CLP: Skin Corr. 1A: H314; Met. Corr. 1: H290

Classification under CHIP: C: R35

Most important adverse effects: Causes severe skin burns and eye damage. May be corrosive to metals.

Label elements:**Label elements under CLP:**

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



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Hazard statements: * H314: Causes severe skin burns and eye damage.
H290: May be corrosive to metals.

Precautionary statements: * P260: Do not breathe dust.
P280: Wear protective gloves.
P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
P305+351+338: 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 or doctor.

Other hazards:

PBT: This product is not identified as a PBT substance.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures:

Hazardous ingredients: SODIUM HYDROXIDE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
215-185-5	1310-73-2	-	Skin Corr. 1A: H314	>85%

4. FIRST AID MEASURES

Description of first aid measures:

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

Most important symptoms and effects, both acute and delayed:

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Indication of any immediate medical attention and special treatment needed:

[cont...]

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5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
- Special hazards arising from the substance or mixture:**
- Exposure hazards:** Corrosive. In combustion emits toxic fumes.
- Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing – see section 8 of SDS. Do not create dust.

Environmental precautions: Do not discharge into drains or rivers.

Methods and material for containment and cleaning up:

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Sweep up Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

Reference to other sections:

7. HANDLING AND STORAGE

Precautions for safe handling:

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air. Use only with closed system ventilation.

Conditions for safe storage, including any incompatibilities:

Storage conditions: Store in cool, well-ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging. Stainless steel. Polyethylene.

Specific end use(s):

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Hazardous ingredients: SODIUM HYDROXIDE

Workplace exposure limits: Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	2 mg/m ³	-	-

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DNEL/PNEC Values: SODIUM HYDROXIDE SOLID

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	1 mg/m ³	Workers	Local
DNEL	Inhalation (repeated dose)	1 mg/m ³	Consumers	Local

Exposure controls:

Engineering measures:	Ensure there is sufficient ventilation of the area.
Respiratory protection:	Respiratory protective device with particle filter. Particle filter class P2S (EN143).
Hand protection:	PVC gloves. Neoprene gloves. Rubber gloves.
Eye protection:	Tightly fitting safety goggles. Ensure eye bath is to hand.
Skin protection:	Protective clothing with elasticated cuffs and closed neck. PVC apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

State:	Solid
Colour:	White
Odour:	Odourless
Oxidising:	Non-oxidising (by EC criteria)
Solubility in water:	Soluble
Boiling point/range°C:	* 373-430
Melting point/range°C:	* 310-315
Vapour pressure:	* 10hPa
Relative density:	2.02-2.13
pH:	>13

Other information: Not applicable.

10. STABILITY AND REACTIVITY

Reactivity: * Stable under recommended transport or storage conditions.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions:

Hazardous reactions: * Hazardous reactions will not occur under normal transport or storage conditions.

Conditions to avoid: Heat. Moist air.

Incompatible materials:

Materials to avoid: Strong oxidising agents. Strong acids. Aluminium. Magnesium. Zinc.

Hazardous decomposition products: In combustion emits toxic fumes.

[cont...]

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11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RBT	LD50	500	mg/kg
ORAL	MUS	LD50	40	mg/kg
ORAL	HMN	LD50	49	mg/kg

Hazardous ingredients: SODIUM HYDROXIDE

IPR	MUS	LD50	40	mg/kg
ORL	RBT	LDLO	500	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Corrosivity	OPT INH DRM	Hazardous: calculated

Symptoms / routes of exposure:

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

12. ECOLOGICAL INFORMATION

Toxicity:

Ecotoxicity values:

Species	Test	Value	Units
RAINBOW TROUT (<i>Oncorhynchus mykiss</i>)	96H LC50	45.5	mg/l
MOSQUITO FISH	96H LC50	125	mg/l
Daphnia magna	48H EC50	240	mg/l

Persistence and degradability: Biodegradable.

Bioaccumulative potential: No bioaccumulation potential.

Mobility in soil:

Mobility: Readily absorbed into soil. Soluble in water.

Results of PBT and vPvB assessment:

PBT identification: This product is not identified as a PBT substance.

Other adverse effects: Negligible ecotoxicity.

[cont...]

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13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

UN number: UN1823

UN proper shipping name:

Shipping name: SODIUM HYDROXIDE, SOLID

Transport hazard class(es):

Transport class: 8

Packing group: II

Environmental hazards:

Environmentally hazardous: No

Marine pollutant: No

Special precautions for user:

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Specific regulations: Not applicable.

Chemical safety assessment: A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010. * indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3:
H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.
R35: Causes severe burns.

[cont...]

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Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Tianjin Yuanlong who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.