

Caustic Soda (Pearl)

Safety Data Sheet

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SECTION 1: Identification

1.1. Identification

Product name : Caustic Soda (Pearl)
Product form : Substance
EC number : 215-185-5
CAS-No. : 1310-73-2
Formula : NaOH

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

Relevant identified uses : Laboratory and analytical use
Laboratory chemical
Uses advised against : Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

1.3. Supplier

FARSA Group Ltd
Sales@farsagroup.az

1.4. Emergency contacts

Emergency number : +994512707856

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Skin corrosion : H314, Category 1A
Corrosive to metals : H290, Category 1

2.2. Label elements

Pictogram



Signal word

: Danger

Hazard statements

: H290 May be corrosive to metals.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H402 Harmful to aquatic life.
H433 Harmful to terrestrial vertebrates.

Precautionary statements

: P102 Keep out of reach of children.
P103 Read label before use.

Precautionary statements - prevention

: P234 Keep only in original container.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - response

: P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

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Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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 or doctor/physician.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P322 Specific measures (see on this label).
P330 Rinse mouth.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.
P405 Store locked up.
P406 Store in corrosive resistant/ container with a resistant inner liner.

Precautionary statements - storage

2.3. Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Identification	Proportion
Sodium Hydroxide	CAS No: 1310-73-2 EC No: 215-185-5	99 - 100%

SECTION 4: First-aid measures

4.1. Description of first aid measures

Following inhalation : Remove patient from contaminated area, lie down and keep warm and rested. To protect rescuer, use a Full-face Type B (Inorganic and acid gas) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask a strained. Perform CPR if necessary. Transport or hospital or doctor without delay.

Following skin contact : If skin or hair contact occurs, remove all contaminated clothing and flush skin and hair with large amounts of running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor. Transport to hospital or doctor

Following eye contact : Hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay.

Following ingestion : Immediately rinse mouth with water. Give a glass of water. DO NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open air way and prevent aspiration.

First aid facilities : Eye wash facilities and safety shower should be available.

4.2. Most important symptoms and effects, both acute and delayed

Corrosive substances may cause lung damage (e.g. lungs oedema, fluid in the lungs).

As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi- recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested

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

Treat symptomatically.

For acute or short-term repeated exposures to highly alkaline materials, respiratory stress is uncommon but present occasionally because of soft tissue oedema. Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary. The presence of shock suggests perforation and mandates an intravenous line and fluid administration. Can cause corneal burns.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

5.2. Special hazards arising from the substance or mixture

Non-combustible material. Not considered a significant fire risk. Heat may be evolved on contact with water

5.3. Advice for firefighters

Not combustible, however following evaporation of aqueous component residual material can decompose if involved in a fire, emitting toxic fumes. Contact with metals may liberate hydrogen gas which is extremely flammable. Fire fighters to wear self- contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Clear area of all unprotected personnel and move upwind. Slippery when spilt. Wear protective equipment to prevent skin and eye contact and breathing

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in vapours. Work up wind or increase ventilation.

6.2. Environmental precautions

Prevent from entering drains and waterways. If contamination of sewers or waterways has occurred advise local emergency services.es.

6.3. Methods and materials for containment and cleaning up

Clean up spills immediately. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

6.4. Reference to other section

See Sections 8 and 13 for exposure controls and disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep out of reach of children. Avoid skin and eye contact and breathing in vapour, mists and aerosols. Wear protective equipment when risk of exposure occurs. Avoid smoking, naked lights or ignition sources. Always wash hands with soap and water after handling.

WARNING: To avoid violent reaction, ALWAYS add material to water and NEVER water to material.

7.2. Conditions for safe storage, including any incompatibilities

Containers:

Do not store in aluminium, galvanised or tin-plated containers or use die-cast zinc or aluminium bungs; plastic bungs should be used. Note: Bags should be stacked, blocked, interlocked and limited in height so that they are stable and secure against sliding or collapse.

Storage:

Hygroscopic material. Store in a cool, dry, well-ventilated place. Store in original containers. Store away from incompatible materials described in Section 10 and foodstuffs. Keep containers closed when not in use - check regularly for leaks. DO NOT store near acids, or oxidising agents.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Material	TWA	STEL	Peak
Sodium Hydroxide	-	-	2 mg/m ³

8.2. Exposure controls

Eye/face protection

: Safety glasses or chemical goggles. Face shield may be required for supplementary but never for primary protection of eyes.

Hand protection

: Elbow-length chemical resistant gloves e.g. PVC or rubber.

Body protection

: Impervious overalls. Rubber boots.

Respiratory protection

: Dust mask. If risk of over exposure exists, use of an approved particulate respirator should be considered.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Solid, crystalline pearls	Solubility	Miscible (water)
Colour	White	Specific gravity	2.12 at 20 °C
Odour	Odourless	Vapour pressure	Not available
pH	12.5 - 13 (1% solution)	Vapour density	Not available
Melting point	318.4 °C	Evaporation rate	Negligible
Freezing point	<10 °C	Viscosity	Not available
Boiling point	1390 °C	Volatile component	Not available
Decomposition temperature	Not available	Auto-ignition temperature	Not applicable
Flash point	Not applicable	Upper/lower explosion limit	Not applicable

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with acids. Reacts exothermically on dilution with water.

10.2. Chemical stability

Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Absorbs carbon dioxide from the air.

10.3. Possibility of hazardous reaction

Reacts with ammonium salts, evolving ammonia gas. Reacts readily with various reducing sugars (i.e. fructose, galactose, maltose, dry whey solids) to produce carbon monoxide.

Hazardous polymerisation will not occur

10.4. Conditions to avoid

Avoid contact with foodstuffs and smoking, naked lights or ignition sources.

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10.5. Incompatible materials

Strong acids, contact with copper, aluminium and their alloys.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. The symptoms or effects that may arise if the product is mishandled and if overexposure occurs are:

Skin corrosion/irritation	: After prolonged or repeated exposure: The material may produce severe skin irritation, and may produce a contact dermatitis (non-allergic).
Serious eye damage/eye irritation	: The material may produce severe irritation to the eye causing pronounced inflammation. Contact with eye can cause corneal burns.
Skin	: Contact with skin will result in severe chemical burns.
Eye	: A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury. injury.
Ingestion	: Can be fatal. Corrosive. Causes burns to mouth and throat, nausea, vomiting, abdominal pains and diarrhea (occasionally bloody). Can also cause swelling of the larynx and suffocation, perforation of stomach and intestines with constrictive scarring, heart failure and coma.
Inhalation	: Breathing in mists or aerosols can cause severe irritation of the nose and throat. Can cause inflammation of the lungs. Risk of permanent damage.
Respiratory irritation	: After prolonged or repeated exposure: The material may result in bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue.
Chronic effects	: -Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. -Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcer active changes in the mouth and necrosis (Rarely) of the jaw. -May cause bronchial irritation, with cough, and frequent attacks of bronchial pneumonia. Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive air ways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity : Avoid contamination of waterways.

12.2. Persistence and degradability

Low.

12.3. Bioaccumulative potential

Low.

12.4. Mobility in soil

High.

12.5. Results of PBT and vPvB assessment

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal	: This material and its container must be disposed of as hazardous waste.
Local legislation	: Recycle where possible otherwise ensure that: -Licensed contractors dispose of the product and its container. -Disposal occurs at a licensed facility.

SECTION 14: Transport information

14.1. UN number

ADR/RID	: 1823
IMDG	: 1823
IATA	: 1823

14.2. UN proper shipping name

ADR/RID	: SODIUM HYDROXIDE, SOLID
IMDG	: SODIUM HYDROXIDE, SOLID
IATA	: SODIUM HYDROXIDE, SOLID

14.3. Transport hazard class(es)

ADR/RID	: 8
IMDG	: 8
IATA	: 8

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14.4. Packing group

ADR/RID : II
IMDG : II
IATA : II

14.5. Environmental hazards

No.

14.6. Special precautions for user

Special precautions : No special precautions.
Tunnel code : E

SECTION 15: Regulatory information

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

No information available.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: Other information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text