

1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifier

Trade Name: Caustic Soda Pearl
Substance name: Sodium hydroxide

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

Uses: At this time we do not have information on identified uses.
Restrictions: At this time we do not have information on use restrictions

1.3 Details of the supplier of the safety data sheet

Company: Complete Pool Controls Ltd
Unit 2, The Park
Stoke Orchard
Bishops Cleeve
Gloucestershire
GL52 7RS

Telephone: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083
E-mail: sales@cpc-chemicals.co.uk

1.4 Emergency Telephone

Tel: +44 (0) 8712 229081 (office hours) +44 (0) 1242 300271 (outside of office hours)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Hazard Class	Hazard Category	Hazard Statements
Skin Corrosion	Category 1A	H314

For the full text of the H statements mentioned in this section see Section 16.

Most important adverse effects

Human Health: See section 11 for toxicological information
Physical & Chemical Hazards: See section 9 for physicochemical information
Potential environmental effects: See section 12 for environmental information

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:



Signal word: Danger

Hazard statements: H314 Causes severe skin burns and eye damage

Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+P361+P353: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water
P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+310: If exposed or concerned: Immediately call a POISON CENTRE or doctor/physician

Additional Labelling:

Hazardous components which must be listed on the label

Sodium hydroxide

2.3 Other Hazards

No other information is available

Trade Name: Caustic Soda Pearl

3. Composition/information on ingredients

3.1 Substances

Sodium hydroxide			
Index-No:	Cas No:	EC No:	CLP Classification
011-002-00-6	1310-73-2	215-185-5	Skin Corr 1A: H314

99.0% (min) by mass of Sodium Hydroxide and 0.5% (max) by mass of sodium carbonate.

4. First Aid measures

4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately.

If Inhaled: In case of accident by inhalation; remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately

In case of skin contact: Wash off immediately with plenty of soap & water. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

In case of eye contact: Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove contact lenses. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.

If swallowed: Clean mouth with water and drink plenty of water. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting - seek medical advice. If a person vomits when lying on his back place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

If Inhaled: Exposure to dust and vapour may cause severe irritation to nose throat and respiratory tract and possible lung damage, coughing, difficulty with breathing, bronchitis, pulmonary oedema.

In case of skin contact: Product will cause severe chemical burns.

In case of eye contact: Dust will cause conjunctival irritation and possibly corneal damage

If swallowed: Swallowing may have the following effects:- corrosion of the mouth, throat and digestive tract, haematemesis, perforation of the oesophagus, gastric perforation.

Aggravating conditions: Repeated exposure of the eyes to a low level of dust can produce eye irritation.

4.3 Indication of immediate medical attention and special treatment needed

Treatment Treat symptomatically

5. Fire fighting measures

5.1 Extinguishing media:

Suitable media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable media: No information available

5.2 Special hazards arising from the substance or mixture

Specific Hazards : Attacks many metals liberating hydrogen gas.

5.3 Advice for fire-fighters

Protective equipment: In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit).

Further Information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Use personal protective equipment. Keep unprotected people away from of spill/leak. Avoid contact with skin and eyes.

6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration

If the product contaminates rivers and lakes or drains - inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Cleaning up: Absorb with liquid-binding material ; neutraise with acid. Keep in suitable closed containers for disposal.

Further Information: Treat recovered material in the section 'Disposal considerations'

6.4 Reference to other sections

See Section 1 for emergency contact information

See Section 8 for personal protective information

See Section 13 for waste treatment information

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Keep container tightly closed. Use personal protective equipment. Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of aerosol. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the work day. Take off all contaminated clothing immediately. Provide adequate ventilation. Avoid contact with the skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities.

Storage areas : Keep in an area equipped with alkali flooring. Store in original container.

Containers: Materials to avoid Aluminium, Zinc and Tin.
Suitable materials for container; Stainless steel, carbon, steel.

7.2 Conditions for safe storage, including any incompatibilities.

Fire and explosion: The product is not flammable. Gives off hydrogen by reaction with base metals. Risk of explosion.

Common storage: Keep container tightly closed. Keep in a well-ventilated place. Store in a well ventilated place.
Do not store together with acids and ammonium salts.

Materials to avoid Organic peroxides.

German storage class: 8B:Non-combustible substance, corrosive

Storage Temperature: Currently we do not have any information from our supplier about this.

7.3 Specific end uses

Specific use(s) No information available

8. Exposure control/personal protection

8.1 Control parameters

Regulatory Basis: UK. EH40 Workplace Exposure Limits (WELS)

Sodium Hydroxide		1310-73-2
Regulatory List:	Value type:	Value:
EH40 WEL	Short Term Exposure Limit (STEL)	2 mg/m ³

8.2 Exposure controls

Engineering measures

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protective equipment

Respiratory protection Use respirator with appropriate filter if vapours or aerosol are released
Required, if exposure limit is exceeded
Particle filter: P2 Particle filter: P3

Hand protection Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
The glove material has to be impermeable to the product
Protective gloves should be replaced at first sign of wear.
Material: Rubber or PVC

Eye protection Wear tightly fitted safety goggles approved to standard EN 166.

Skin and body protection Alkali resistant clothing

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer systems
Avoid subsoil penetration

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Solid Crystals
Colour: White. Opaque
Odour: Faint. Characteristic

pH @ 20°C: Alkaline
melting point: 318°C
Boiling point: 1390°C
Flash point: Not applicable
Flammability (solid, gas) Does not ignite
Upper explosion limit: Not applicable
Lower explosion limit: Not applicable
Vapour pressure: 1 mmHg 739°C
Water solubility: 111g / 100ml

Partition coefficient:n-octanol/water: No information available
Ignition temperature: Not applicable
Viscosity, kinematic: 80 cP 20°C (50% sol.)
Explosive properties: No information available
Oxidising properties: No information available

9.2 Other Information No further information available

10. Stability and reactivity**10.1 Reactivity**

Reactivity Gives off hydrogen by reaction with base metals (zinc, aluminium)

10.2 Chemical stability

Chemical stability No decomposition if stored and applied as directed

10.3 Possibility of hazardous reactions

Hazardous reactions: Exothermic reaction with strong acids. Gives off Hydrogen, by reaction with base metals (zinc, aluminium). Risk of explosion

10.4 Conditions to avoid

Conditions to avoid Currently we do not have any information from our supplier about this.

10.5 Incompatible materials

Materials to avoid
 Acids: Tin Brass
 Zinc: Halogenated solvents Aluminium

10.6 Hazardous decomposition products

Haz. Decomp. products: Hydrogen gas

11. Toxicological Information**11.1 Information on toxicological effects****Acute Toxicity - Oral**

Sodium Hydroxide		1310-73-2
Value type	Value	Species
LD50	40mg/kg	mouse

Primary irritant effect:

on the skin: Extremely hazardous in case of skin contact (corrosive)

on the eye: Extremely hazardous in case of eye contact (irritant)

Sensitization: Patch test on human volunteers did not demonstrate sensitization properties.

Other relevant information: All numerical values for acute toxicity are calculated on the pure substances. Repeated or prolonged exposure to a low dust level may produce chronic eye irritation and local skin destruction or dermatitis. Repeated inhalation of dust can produce varying

12. Ecological Information**12.1 Toxicity**

Toxicity The product is rated as practically non-toxic to aquatic species. High concentrations injure aquatic life by effect on pH

12.2 Persistence and degradability

Persistence and degradability The methods for determining biogradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Bioaccumulative potential Does not bioaccumulate

12.4 Mobility in soil

Mobility in soil The product is mobile in water environment

12.5 Results of PBT and PvB assessment

PBT and PvB No information available

12.6 Other adverse effects

Remarks: All numerical values for ecotoxicity effects are calculated on the pure substances. Harmful effects to aquatic organisms due to pH shift
 Neutralization is normally necessary before waste water is discharged into water
 Do not flush into surface water or sanitary water system

Trade Name: Caustic Soda Pearl

13. Disposal Considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not reuse empty containers without commercial cleaning or reconditioning
- Do not discharge into drains or the environment, dispose to an authorised waste collection point

Classification

Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority

14. Transport Information

14.1 UN Number 1823

14.2 UN proper shipping name

ADR: SODIUM HYDROXIDE SOLID
RID: SODIUM HYDROXIDE SOLID
IMDG: SODIUM HYDROXIDE SOLID

14.3 Transport hazard class(es)

ADR Class 8
(Label, classification code; Hazard ID; Tunnel
Restriction code) 8;C41;80; (E)

RID Class 8
(Label, Classification Code; Hazard ID;) 8;C41;80;

IMDG Class 8
(Labels; EmS) 8, F-A,S-B

LQ 1 kg

14.4 Packaging Group

ADR: II
RID: II
IMDG: II

14.5 Environmental hazards

Labelling according to 5.2.1.8 ADR: No
Labelling according to 5.2.1.8 RID: No
Labelling according to 5.2.1.8 IMDG: No
Classification as environmentally hazardous according to 2.9.3 IMDG: No
Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG: Not applicable

15. Regulatory information

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

15.2 Chemical Safety Assessment

Currently we do not have any information from our supplier about this.

Trade Name: Caustic Soda Pearl

16. Other information

Full text of H-statements referred to under sections 2 and 3
H314 Causes severe skin burns and eye damage

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information. Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

REV 4

Indicates updated section.