

Ref: I28 - Caustic soda pearl

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY:

Product Name: CAUSTIC SODA
Applications: Drain Cleaner
Supplier: Palace Chemicals Ltd; Speke Hall Industrial Estate; Speke; Liverpool; L24 4AB
Tel: 0151 486 6101; Fax 0151 448 1982
e-mail: sales@palacechemicals.co.uk; web: www.palacechemicals.co.uk

2. HAZARDS IDENTIFICATION:

Hazard Category: Skin Corrosion Categories 1A; 1B; 1C & Serious eye damage category 1
Key Word: DANGER



DANGER

Hazard statement: H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage

Precautionary statements: P260: Do not breathe dusts or mists
P264: Wash hands & skin thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection
P301: IF SWALLOWED: Rinse mouth. Do Not INDUCE VOMITING
P303: IF ON SKIN (or hair) Remove take/off immediately all contaminated clothing.
Rinse skin with water/shower
P304: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337: If eye irritation persists get medical advice/treatment.
P310: Immediately call a POISON CENTRE or doctor / physician.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients: Sodium Hydroxide (>99.0 %w/w) – CAS No. 1310-73-2
Sodium Carbonate (< 1.0% w/w)

Hazardous components: Sodium Hydroxide (>99.0 %w/w) – CAS No. 1310-73-2

4. FIRST AID MEASURES:

Inhalation: Avoid working in a poorly ventilated, confined space. Remove to fresh air and rest. If irritation or breathing difficulties persist, seek medical attention. Do not use mouth to mouth ventilation. Obtain immediate medical assistance.

Skin contact: Wash off skin immediately with water. Remove contaminated clothing and launder regularly. Where irritation to skin is apparent seek prompt medical attention.

Ingestion: Clean out mouth with copious volumes of water and drink plenty. Do not induce vomiting. Beware of aspiration if vomiting occurs. Seek prompt medical attention and show this data sheet.

Eye contact: Irrigate thoroughly for 15 minutes with clean running water or a boric saline eye wash bottle. Seek immediate medical attention & remove any particles with a cotton wool bud.

5. FIRE FIGHTING MEASURES:

Extinguishers: Do not use water as this will generate heat & steam on contact with caustic pearl.

Combustion products: May attack metals liberating hydrogen gas. Steam liberated on contact with water will produce noxious, irritating fumes.

Special procedures: Fire fighter should wear full protective clothing and self-contained breathing apparatus with support of chemical shower facilities for immediate wash down after contact.

6. ACCIDENTAL RELEASE MEASURES:

Personal protection: Wear impermeable PVC overalls, aprons, rubber boots and supply respiratory protective equipment when there is a risk of noxious vapours due to high temperatures.

Environmental protection: Sweep up dry granules into sealable containers and then wash away fine residues with excess volumes of water ensuring complete and effective dilution.

Spill removal methods: Avoid contact with water onto dry granules and contain dry residues in clearly marked containers for specialist disposal according to local authority regulations for corrosive solids.

7. HANDLING & STORAGE:

Handling precautions: Use in well ventilated areas. Avoid handling dust or granules. Always avoid contact with skin & eyes and ensure nearby provision of shower and eye wash equipment in the event of accidental contact.

Storage precautions: Store in well-sealed, clearly marked containers. Keep out of reach of children in a cool, dry & well-ventilated environment preferably within a lockable metal cabinet. Avoid storage outdoors or where there is a risk of contact with moisture or excessive humidity.

Usage precautions: Use only in accordance with instructions shown on the container and do not transfer contents to secondary containers made from zinc, tin or aluminium or any associated alloys.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION:

Exposure limits: Occupational exposure limit – 2mg/M3 10 min STEL for Sodium hydroxide

Process controls: Use process enclosures and engineering containment whenever possible. Where user operations generate dust the installation of local exhaust ventilation is essential.

Personal protection: Wear impermeable PVC overalls, aprons, rubber boots and supply respiratory protective equipment when there is a risk of noxious vapours due to high temperatures. Chemical goggles to BS 2092 Goggles should be worn for all applications to help prevent accidental face/eye contact. Hand protection is advised by wearing 17" long elbow length heavy duty natural rubber gloves or gauntlets approved to EN 374 & EN 420 with a BTT rating of > 8 hrs for 50% caustic sol'n. A disposable PVC apron should be worn on top of overalls, however if the fabric becomes contaminated these should be laundered immediately.



9. PHYSICAL & CHEMICAL PROPERTIES:

Appearance:	White pearl granules	Vapour pressure:	N/A
Colour:	white	Evaporation rate:	N/A
Density / SG:	n/a	Viscosity:	80Cp in a 50% sol'n @ 20°C
Solubility:	Exothermically in water	Boiling point:	N/A
Melting point:	318°C	Flammability limits:	N/A
Auto ignition Temp:	N/A	Oxidising properties:	Contact with metals liberates hydrogen gas

10. STABILITY & REACTIVITY:

Conditions to avoid: Exposure to air, water, oxygen or metals.

Materials to avoid: Strong acids, ammonium salts, tin, zinc, aluminium, halogenated solvents, nitroalkanes and oxidising agents

Decomposition products: Hydrogen gas with metals and steam on exothermic dissolution

11. TOXICOLOGICAL INFORMATION:

Routes of exposure:	Skin, eye & inhalation	Corrosivity / Irritation:	Extremely hazardous Causes burns
Acute short term effects:	Burns & severe irritation	Sensitisation:	With prolonged contact
Chronic long term effects	Severe skin damage & dermatitis	Mutagenicity:	n/a
Toxic dose -LD 50:	40mg / kg in a mouse 5gm in man	Carcinogenicity:	n/a
Prolonged exposure effects:	Local skin destruction & damage to respiratory functions.	Reproductive toxicity:	n/a

12. ECOLOGICAL INFORMATION:

Ecotoxicity:	High concentrations will injure aquatic life due to high PH level.
Bio-accumulative potential:	Nil
Persistence & degradability:	Alkalinity diminishes with dilution & contact with low Ph environments.

13. DISPOSAL CONSIDERATION:

Disposal Methods: Dried residues can remain corrosive when re-wet. Unused product and freshly contaminated application materials must be considered harmful and disposed of in accordance with local authority regulations for alkali liquids and solids.

Special requirements:
Regulatory controls:

14. TRANSPORT INFORMATION:

Proper shipping name:	SODIUM HYDROXIDE SOLID	Flash point:	N/A
ADR Class No.:	8	IMDG Class:	8
UN No.	1823	IMDG Pack group:	II
ADR Packing Group:	II	Marine pollutant:	NO
Hazchem Code:	80		



15. REGULATORY INFORMATION:

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

All components are listed as existing substances in Europe

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UK Regulatory References:

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

Environmental Listing - Control of Pollution Act 1974. Control of Pollution (Special Waste Regulations) Act 1980.

Statutory Instruments:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes:

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

EU Legislation:

Dangerous Substance Directive 67/548/EEC.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.



National Regulations:

Users of this product are reminded of their duties under the current Control of Substances Hazardous to Health Regulations and a suitable and sufficient assessment of all the risk should be undertaken before using this product. The guidelines given in the HSE publication COSHH ESSENTIALS - Easy Steps To Control Chemicals gives sound advice for deciding safe working control measures.

Authorisations (Title VII Regulation 1907/2006) - No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006) - No specific restrictions of use are noted for this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

16. OTHER INFORMATION:

Last revision date: 8th April 2015

SDS No.: 128

List of abbreviations used in this SDS:

CAS	Chemical abstracts service
CLP	Classification, labelling & packaging regulation (EC) No. 1272/2008
DSD	Dangerous substances Directive 67/548/EEC
DPD	Dangerous Products Directive 1999/45/EC
PBT	Persistent, Bio-accumulative & Toxic
REACH	Registration, Evaluation, Authorisation & Restriction of Chemicals Regulation (EC) 1907/2006
vPvB	Very Persistent, very Bio-accumulative

References:

Classification methods:

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H Phrases in section 3: H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

Training for workers: Employees should receive appropriate training in all aspects of the safe handling and control of this product for use at work

Disclaimer: The information supplied in this safety data sheet is intended to assist in the use of the above product without risk to safety and health and is based on current knowledge and experience of the associated physico-chemical hazards. The data does not signify any warranty with regard to the product's properties. This information may be used to assist in formulating a COSHH risk assessment if applied at work. This data sheet complies with EC Directive 91/155EC.