
SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Product Name: CAUSTIC SODA PEARL – CHINESE ORIGIN
- Synonyms: SODIUM HYDROXIDE, SODIUM HYDRATE
- Molecular formula: NaOH
- UFI:
- REACH Registration Number : 01-2119457892-27-XXXX
- CAS Number: 1310-73-2

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

- Use of the substance/mixture:
Reagent
pH-regulating agents
Ion exchange resins regenerating agent
Catalyst
Etching agent
Cleaning agent
Chemical intermediate
Chemical manufacture and processing
pH control

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Palatine Paints & Chemicals Ltd
- Address of Supplier: 55 Smalbrook Lane, Leigh, Lancs, WN7 5PZ
- Telephone: 01942 884122
- Responsible Person: J Huyton
- Email: sales@palatinepaints.co.uk

1.4 Emergency telephone number

- Emergency Telephone: 01942 884122 (not 24hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Met. Corr. 1, Skin Corr. 1A

2.2 Label elements



- Signal Word: Danger
- Hazard statements
H314 - Causes severe skin burns and eye damage.
H290 - May be corrosive to metals.
- Precautionary statements
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
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.

SECTION 2: Hazards identification (....)

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water [or shower].

2.3 Other hazards

- Not known
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SECTION 3: Composition/information on ingredients**3.1 Substances**

- Sodium Hydroxide
% w/w >=99%
CAS Number: 1310-73-2
EC Number: 215-185-5
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SECTION 4: First aid measures**4.1 Description of first aid measures**

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
- Inhalation
If inhaled remove to fresh air.
Oxygen or artificial respiration if needed
Keep warm and at rest
Call a physician immediately
- Contact with skin
Remove contaminated clothing and shoes.
Rinse immediately with plenty of water
Keep warm and at rest
Wash contaminated clothing before reuse
Call Poison Centre/Doctor Immediately
- Contact with eyes
Rinse immediately with plenty of water for at least 15 minutes holding the eyelids open
In case of difficulty opening eyes, administer an analgesic eye wash.
Take to hospital immediately
Call Poison Centre/Doctor Immediately
- Ingestion
Rinse mouth with water
DO NOT induce vomiting
DO NOT give activated charcoal
Take to hospital immediately
Call Poison Centre/Doctor Immediately

4.2 Most important symptoms and effects, both acute and delayed

- Inhalation
Corrosive to the respiratory system
Symptoms: Breathing difficulties, Cough, Chemical pneumonitis, pulmonary oedema.
Repeated or prolonged exposure : Risk of sore throat, nose bleeds, chronic bronchitis
- Contact with skin
Corrosive: Causes severe burns
Symptoms: Redness, swelling of tissue

SECTION 4: First aid measures (....)

- Contact with eyes
Causes severe burns
May cause permanent damage to eyes
Symptoms: Redness, Lachrymation, Swelling of tissue, Burn
- Ingestion
Ingestion may produce burning of the gastrointestinal system.
Small quantities may develop burning pain, feeling of constriction in the throat.
Large quantities may cause an extensive destruction, and perforation of the stomach.
Symptoms: Nausea, Abdominal pain, Bloody vomiting, Diarrhoea, Suffocation, Cough,
Severe shortness of breath.

4.3 Indication of any immediate medical attention and special treatment needed

- Take victim immediately to hospital
 - Immediate medical attention is required
 - Consult with an ophthalmologist
 - Keep under medical surveillance
 - If swallowed avoid gastric lavage (risk of perforation)
 - Burns must be treated by a physician
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SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Appropriate for surrounding fire
- Water maybe ineffective

5.2 Special hazards arising from the substance or mixture

- The product is not flammable
- Not combustible
- Reacts with water violently
- Gives off hydrogen by reaction with metals

5.3 Advice for firefighters

- Use personal protective equipment
 - Cool containers with water
 - Prevent run off from fire fighting water from entering streams or drinking water supply.
 - Wear self-contained breathing apparatus
 - Wear full protective clothing including chemical protection suit
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SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Prevent further spillage if safe
- Keep away from incompatible materials
- Evacuate the area
- Ventilate affected area
- Wear suitable protective equipment

6.2 Environmental precautions

- Should not be released into the environment
- Do not flush into surface water or sanitary sewer system
- Inform relevant authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up

- Sweep or shovel-up spillage and remove to a safe place
- Avoid raising dust
- Transfer to suitable, labelled containers for disposal

SECTION 6: Accidental release measures (...)

- Treat recovered material as described in the section "disposal considerations".

6.4 Reference to other sections

- See Section 7 and 8, protective measures
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SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- When diluting, always stir the product into standing water
- Never add water to product
- Keep away from Incompatible products.
- To avoid thermal decomposition, do not overheat

7.2 Conditions for safe storage, including any incompatibilities

- Store in original container
- Avoid dust formation
- Keep away from incompatible materials
- Keep in a cool, dry, well ventilated place
- Keep container tightly closed
- Suitable packaging: Stainless steel, polyethylene, Paper + PE

7.3 Specific end use(s)

- See Section 1.2
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SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

- WEL (short term): 2 mg/m³
- DNEL (Industry; inhalational, long term local effects): 1 mg/m³
- DNEL (Consumer; inhalational, long term local effects): 1 mg/m³

8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines
 - If ventilation is insufficient wear dust mask or chemical respirator whichever is appropriate
 - Wear chemical resistant gloves
 - Wear suitable protective clothing
 - Eyewash bottles should be available
 - Take off contaminated clothing and shoes immediately
 - Handle in accordance with good industrial hygiene and safety practice.
 - Dispose of any rinse water in accordance with local and national regulations
 - Eye Protection: Chemical resistant goggles must be worn
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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- Physical state:
Solid form, crystalline, strongly hygroscopic, flakes, bales, micro granules
- Colour: white
- Odour: Odourless
- Molecular Weight: 40.01 g/mol

SECTION 9: Physical and chemical properties (....)

- Melting point/Range: 318.4 °C
- Boiling Point/Range: 1388 °C
- Flammability: Non-flammable
- pH: >13
- Solubility in water: Water solubility 20 °C 1100 g/l
- Density: 1.14 kg/m³ at 20 °C
- Vapour pressure: 1 hPa at 739 °C
- Relative density ; 2.13 at 20°C
- Explosive Limits: Not Explosive

9.2 Other information

- Particle characteristics: size - 0.8mm, mean diameter
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SECTION 10: Stability and reactivity**10.1 Reactivity**

- Potential for exothermic hazard
- Corrosive action on metals possible

10.2 Chemical stability

- Stable under normal conditions

10.3 Possibility of hazardous reactions

- Contact with metals liberates hydrogen
- Exothermic reaction if in contact with acids
- Risk of violent reaction:
- Risk of explosion
- Reacts violently with water

10.4 Conditions to avoid

- Keep away from direct sunlight
- To avoid thermal decomposition, do not overheat
- Exposure to moisture
- Protect from freezing

10.5 Incompatible materials

- Acids
- Water
- Metals
- Oxidizing Agents
- Aluminium

10.6 Hazardous decomposition products

- Hydrogen
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SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

- Acute toxicity
 - Acute oral toxicity: Not Classified
 - Acute dermal toxicity: Not Classified
 - Acute inhalation toxicity: Not Classified
- Skin corrosion/irritation
 - Corrosive

SECTION 11: Toxicological information (....)

- Serious eye damage/irritation
Corrosive
- Respiratory or skin sensitisation
Not Classified
- Germ cell mutagenicity
Not Classified
- Carcinogenicity
Not Classified
- Reproductive toxicity
Not Classified
- STOT (specific target organ toxicity) - single exposure
Inhalation Corrosive
Dermal Corrosive
Oral: Corrosive
- STOT (specific target organ toxicity) - repeated exposure
Not Classified
- Aspiration hazard
Not Classified

11.2 Information on other hazards

- No information available
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SECTION 12: Ecological information**12.1 Toxicity**

- LC₅₀ (fish): 35-189 mg/l (96 hr)
- EC₅₀ 40.4 mg/l (48 hr)

12.2 Persistence and degradability

- Degrades abiotically

12.3 Bioaccumulative potential

- No information available

12.4 Mobility in soil

- Water/Earth: Considerable solubility and mobility

12.5 Results of PBT and vPvB assessment

- Not Classified as PBT/vPvB by current EU criteria.

12.6 Endocrine disrupting properties

- No further relevant information available.

12.7 Other adverse effects

- None
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SECTION 13: Disposal considerations**13.1 Waste treatment methods**

- Dilute with a large volume of water
- Neutralise with Acid before disposal
- Dispose of the product, packaging and any residuals in compliance with local and national regulations

SECTION 14: Transport information

14.1 UN number or ID number

- UN No.: 1823

14.2 UN proper shipping name

- Proper Shipping Name: SODIUM HYDROXIDE, SOLID

14.3 Transport hazard class(es)

- Hazard Class: 8

14.4 Packing group

- Packing Group: II

14.5 Environmental hazards

- None

14.6 Special precautions for user

- Tunnel Restriction Code (E)

14.7 Maritime transport in bulk according to IMO instruments

- Not applicable
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SECTION 15: Regulatory information

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

- Regulation (EC) No 1907/2006 (REACH), Annex XIV:

15.2 Chemical safety assessment

- Chemical safety assessment has been completed
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SECTION 16: Other information

This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its accuracy, reliability or completeness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use.

--- end of safety datasheet ---
