

## Material Safety Data Sheet

### 1. IDENTIFICATION OF SUBSTANCE/COMPANY/UNDERTAKING

<b>Product Name:</b>	<b>Caustic Soda Pearl</b>
Company Name:	William Hodgson & Company 'The Dairy', Gawsworth Business Court, Shellow Lane, North Rod, e, Congleton, Cheshire. CW12 2FQ
Telephone Number:	01260 222 943
Fax Number:	01260 222 994
Mobile Number:	07795 414 061

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number:	1310-73-2
EINECS Number:	215-185-5
UK Customs Number:	CUS 23321
Chemical Name:	Sodium Hydroxide
Formula:	NaOH
Composition:	Both solid and pearl forms contain 99.0% (min) By mass of Sodium Hydroxide and 0.5% (max) By mass of Sodium Carbonate.
Applications:	Used in the manufacture of Rayon, Soap, Paper, Alumina, Petroleum Products, Metal cleaning, Food Industry and as a dehydrant. Used in Waste water treatment.

### 3. HAZARDS IDENTIFICATION

Spillage will affect vegetation. Toxic to aquatic life – see Ecological information.  
Corrosive to eyes, skin and respiratory tract, effects often delayed. Inhalation can  
cause lung oedema.

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## 4. FIRST AID MEASURES

<b>Product Name:</b>	<b>Caustic Soda Pearl</b>
Inhalation:	Remove from exposure. Keep warm and at Rest. If there is respiratory distress give oxygen. If respiration stops or shows signs of failing, Apply artificial respiration. Do not use mouth to Mouth ventilation. Obtain medical attention Urgently.
Skin contact:	Speed is essential to prevent permanent damage. Therefore, brush off excess material and irrigate With large amounts of Boric Saline Solution or Water. Remove contaminated clothing immediately and thoroughly clean and dry before re-Use. Obtain medical attention if irritation Persists or blistering occurs.
Eye contact:	Speed is essential – only a few seconds contact Is sufficient to produce permanent damage. Therefore, irrigate with Boric Saline Solution Or water for at least 10 minutes, ensuring liquid Reaches the corners and under both eyelids. Continue irrigation until medical attention can Be obtained.
Ingestion:	Do not induce vomiting. Wash out mouth with Water and give plenty of water and milk to Drink, followed by 1% Acetic Acid (Dilute Vinegar) or fruit juice. Obtain medical attention Immediately.
Medical Assistance:	Symptomatic treatment and supportive therapy As indicated. In the case where material has Entered eyes, a sterile pad and bandage should be applied.

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## 5. FIRE FIGHTING EXTINGUISHING MEASURES

<b>Product Name:</b>	<b>Caustic Soda Pearl</b>
Suitable Extinguishers:	Select extinguishing media appropriate to Other materials involved in the circumstances of The fire. Use fog equipment or a fine water Spray.
Special Exposure hazards:	Non flammable. Contact with moisture may Generate sufficient heat to ignite combustible Materials.
Protective equipment:	Non-flammable. May generate toxic and Explosive fumes in a fire. Therefore fire-Fighters should wear self contained breathing Apparatus and full body protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	Spilled caustic soda rapidly absorbs moisture From the atmosphere to form a slippery solution Therefore quickly contain large or small spills With dry sand and transfer solids to Polyethylene buckets, for neutralization and Disposal. Dispose of hazardous waste in Accordance with waste disposal and water Authority regulations.
Personal Precautions:	Avoid contact with the product. Ventilate the Area to dispel possible toxic decomposition Fumes. Full body protective clothing should be Worn when dealing with spillages.

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## 7. HANDLING & STORAGE MEASURES

**Product Name:**

**Caustic Soda Pearl**

**Handling:**

Exposure by inhalation or skin contact should be minimized by good industrial hygiene practice. Wear appropriate protective clothing. Safety showers and eye baths should be provided in areas where accidental exposure is possible. Ensure adequate ventilation to keep the airborne concentration as low as possible. Extinguish ignition sources – NO SMOKING! The product should be contained in an enclosed system away from acids and ammonium salts.

**Storage:**

Store in a cool dry well ventilated area, away from incompatible chemicals or materials. Keep containers closed to prevent ingress of moisture. If outdoor storage of solid caustic is unavoidable pallets should be protected by black sheets to prevent extremes of weather. Store in stainless steel drums. Polyethylene is also suitable. Do not store in aluminium, tin, brass or zinc drums.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Personal Protection:**

Wear PVC or rubber gloves. Wear safety glasses with eye shields or goggles. Eye baths should be provided where accidental exposure may be possible. Wear cotton overalls, headgear and rubber boots. Wear a PVC suit where significant exposure is possible. Showers should be provided at places where accidental exposure may occur.

**Exposure Limits:**

Occupational Exposure Limits assigned by HSE (1) and ACGIH (2):  
OES-LTEL = Not listed  
OES-STEL = 2mgm<sup>-3</sup> HSE (1)  
Wear self contained breathing apparatus where significant exposure is possible.

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## 9. PHYSICAL & CHEMICAL PROPERTIES

**Product Name:** Caustic Soda Pearl

Please see separate specification sheet.

## 10. STABILITY AND REACTIVITY

Conditions to avoid:	Minimise exposure to moisture and air to Avoid degradation.
Materials to avoid:	Reacts violently with acids. Contact with Ammonium salts liberates ammonia gas. Aluminium, Brass, Tin and Zinc are readily Attacked if moisture present. Reacts violently With halocarbons, nitroethane, nitropropane And acid anhydrides. Absorbs carbon dioxide From the air. Reactions with the product may be Violent and explosive.
Hazardous decomposition Products:	Contact with Aluminium, Brass, Tin and Zinc will produce highly flammable and explosive Hydrogen gas.

## 11. TOXICOLOGICAL EFFECT

Lethal Dosage:	40mg/kg (mice)
Acute effects:	Dust causes severe irritation to eyes, skin Respiratory and digestive tracts. Corrosive to Eyes and may cause corneal damage. Corrosive To the skin, causing ulceration and possible Dermatitis. Ingestion may cause haematemesis Oesophageal and gastric perforation. Death may Result from subsequent penetration into vital Areas. The estimated fatal dose for man is 5g. High airborne concentration may cause Coughing, choking and respiratory difficulties.
Chronic Effects:	High exposure to aspired mists or vapours may Lead to bronchitis, pneumonitis and Obstructive pulmonary oedema.



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## 16. OTHER INFORMATION

**Product Name:** Caustic Soda Pearl

The User should be trained to handle chemicals and be fully aware of the products' reaction/hazards.

Read the label before opening the container.

Avoid storage with or near reactive chemicals or incompatible materials. (see Stability and Reactivity).

The information contained herein is accurate to the best of our knowledge.

No liability can be accepted arising out of the use, application or processing of this product.

It is the Users responsibility to determine safe conditions for the use of this material.