

# Safety Data Sheet (SDS)

## Caustic Soda

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

Product name Caustic Soda  
Product Code CAUST0980  
**Company** e-hygiene systems ltd  
**Address** Murray Road Orpington BR5 3QY  
**Tel:** 01689 892522  
**Fax:** 01689 877575  
**E-Mail** [info@e-hygiensystems.co.uk](mailto:info@e-hygiensystems.co.uk)

### 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENT

Hazardous ingredients	CAS	EINECS	Risk	Range
Sodium Hydroxide	1310-73-2	215-185-5	C; R35	>90%

### 3. HAZARD IDENTIFICATION

Causes severe burns. Causes severe injury in the case of contact to eyes, inhalation or ingestion. Will cause ulceration and subsequent scarring.

### 4. FIRST AID MEASURES

(symptoms)

**Skin Contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye Contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

(action)

**Skin Contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still stuck to skin. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye Contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Give 1cup of water to drink every 10 minutes. If conscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to a hospital as soon as possible.

**Inhalation:** remove casualty from exposure ensuring one's own safety while doing so. If unconscious and breathing is OK place in recovery position. If conscious ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Suitable Extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

**Exposure hazards:** Corrosive. In combustion emits toxic fumes.

**Protection of fire fighters:** Wear self contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing – see section 8 for SDS. Turn leaking container leak side up to prevent the escape of liquid.

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**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.  
**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance.  
Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

## 7. HANDLING AND STORAGE

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in confined spaces. Avoid the formation or spread of dust in the air.

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**OEL:** Sodium Hydroxide TWA 2 mg/m<sup>3</sup> STEL 2 mg/m<sup>3</sup>

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Impermeable gloves.

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

## 9. PHYSICAL/CHEMICAL PROPERTIES

**State:** Pearl / powder

**Colour:** White

**Odour:** None

**Solubility in water:** 100% Soluble

**Density:** 2.13 g/ml

**Boiling Point:** 1390°C

**Melting Point:** 318°C

**Flammability:** Not flammable

## 10. STABILITY & REACTIVITY

**Stability:** Stable under normal conditions, absorbs moisture and carbon dioxide.

**Conditions to avoid:** Excessive humidity

**Materials to avoid:** Acids, aluminium, zinc.

**Hazardous products of decomposition:** Produces hydrogen in contact with aluminium and zinc. Reacts violently with acids and chlorinated hydrocarbons. Produces heat when dissolved in water.

## 11. TOXICOLOGICAL INFORMATION

**Hazardous ingredients:** Sodium Hydroxide IPR MUS LD50 40 mg/kg, ORL RBT LDLO 500 mg/kg.

**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

## 12. ECOLOGICAL INFORMATION

**Mobility:** Hygroscopic and very soluble.

**Persistence and degradability:** Can cause long term adverse effects on the aquatic environment.

**Bioaccumulative potential:** High pH values and sodium content has a potential to damage soil structure.

**Other adverse effects:**

## 13. DISPOSAL CONSIDERATIONS

NB. The user's attention is drawn to the existence of regional or national regulations regarding disposal.

## 14. TRANSPORT INFORMATION

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**ADR / RID:** UN no. 1823. ADR class: 8.  
**Packing Group:** II      **Classification code:** C9  
**Shipping name:** SODIUM HYDROXIDE  
**Labelling:** 8      **Hazard ID:** 80

**IMDG / IMO:** UN no. 1760. Class: 8

**Packing group:** II      **EmS:** F-A,S-B  
**Marine pollutant:** **Labelling:** 8  
**IATA / ICAO:** UN no. 1760. Class 8  
**Packing group:** II **Subsidiary risk:** 5.1  
**Packing instructions:** 809(P&CA); 812(CAO)  
**Labelling:** 8

## **15. REGULATORY INFORMATION**

**Hazard symbols:** Corrosive.

**Risk phrases:** R35: Causes severe burns.

**Safety phrases:** S1/2: Keep locked out of children's reach. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

## **16. OTHER INFORMATION**

**Risk phrases used in Section 2:** R35: Causes severe burns.

PLEASE ENSURE THAT IT IS PASSED TO THE APPROPRIATE PERSON(S) IN YOUR COMPANY, WHO ARE CAPABLE OF ACTING ON THE INFORMATION.

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