

# SAFETY DATA SHEET

## Sodium Hydroxide 0.1M Solution

### Cover sheet / Supplier Information

#### Section 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name:** Sodium Hydroxide solution 0.1N

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

**Indicator solution**

**Use of substance / mixture:**

Neutralising/ indicator solution

##### 1.3. Details of the supplier of the safety data sheet

**Company name:**

Blast Wash UK  
24 Baron Avenue  
Earls Barton Industrial Estate  
Earls Barton  
Northants  
NN6 0JE  
United Kingdom

01604 811505 info@blast-wash.co.uk

##### 1.4. Emergency telephone number

**Emergency tel:**

07725 819653

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## 1. Identification of the product

**Catalogue No:**

7098/1 ; 7098/5 ; 7098/10 ; 7098/20 ; VS095

**Product name: Sodium Hydroxide, solution  $\leq$  0.1N****Synonyms: Caustic soda; Soda lye; Sodium hydrate; Lye.****Application of the substance/the preparation:**

Chemicals for synthesis, Laboratory Chemicals

**Manufacturer/supplier identification****Company:** Scientific & Chemical Supplies Limited  
Carlton House, Livingstone Road  
Bilston. West Midlands WV14 0QZ**Information in case of emergency:**Emergency telephone no.: +44 (0) 1902 402402 Fax +44 (0) 1902 402343  
Emergency telephone no(24hr): +44 (0) 7919 258 784

## 2. Hazards Identification

**Hazard designation:****Information pertaining to particular dangers for man and environment:****Classification System***The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies*

## 3. Composition/information on ingredients

**Chemical classification:** Alkali aqueous mixture**CAS number:** N/A **EC number:** N/A**Dangerous components:**

#### 4. First Aid Measures

**Eye Contact:**

Irrigate thoroughly with water. If discomfort persists obtain medical attention.

**Skin Contact:**

Wash off thoroughly with soap and water.

**Inhalation:**

Remove from exposure.

**Ingestion:**

Wash out mouth thoroughly with water. In severe cases obtain medical attention.

#### 5. Fire Fighting Measures

**Fire Risks:**

Hydrogen may form upon contact with light metals (danger of explosion!), Not combustible.

**Suitable Extinguishing Media:**

To suit environment.

#### 6. Accidental Release Measures

**Personal:**

Wear appropriate protective clothing.

**Disposal:**

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to container and arrange removal by disposal company. Wash site of spillage thoroughly with detergent and water.

**Spillage:**

For large spillage's liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillage's.

#### 7. Handling & Storage

**Handling:**

Apply skin- protective barrier cream. Avoid generation of dusts. Change contaminated clothing. Do not empty into drains. Wash hands after working with substance. Unsuitable working materials: Aluminium, brass, tin, zinc.

**Storage:**

Store at room temperature (15 to 25°C recommended).

Keep well closed and protected from direct sunlight and moisture.

## 8. Exposure Controls/Personal Protection

As appropriate to the situation and the quantity handled. Engineering methods to control or prevent exposure are preferred. Methods could include process enclosure or mechanical ventilation.

**Respirator:**

Dust respirator.

**Ventilation:**

Extraction hood

**Gloves:**

Rubber or plastic

**Eye Protection:**

Goggles or face-shield

**Other Precautions:**

Plastic apron, sleeves, boots - if handling large quantities.

See section 15 for UK exposure limits.

## 9. Physical and Chemical Properties

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	Clear, colourless
<b>Odour:</b>	Characteristic odour
<b>Molecular Weight:</b>	40
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<b>Boiling Point:</b>	100°C
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<b>Vapour Pressure:</b>	23.0 hPa @ 20°C
<b>Specific Gravity/Density:</b>	1.0 g/cm <sup>3</sup> @ 20°C
<b>Solubility in water:</b>	Fully miscible.

## 10. Stability and Reactivity

Sensitive to air. Sensitive to moisture.

**Substances to be avoided:**

Aluminium, zinc, tin (Formation of: hydrogen); acids, nitriles, alkaline earth metals in powder form, ammonium compounds, cyanides, magnesium, organic nitro compounds, organic combustible substances, phenols, oxidisable substances.

The possibility of reaction with other substances cannot be excluded.

## 11. Toxicological Information

Strongly corrosive substance.

***Inhalation:***

Burns of: Mucous membranes.

***Skin Contact:***

Burns.

***Eye Contact:***

Burns. Risk of blindness!

***Ingestion:***

Risk of perforation in the oesophagus and stomach.

***Further data:***

No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects.

## 12. Ecological Information

***Ecological:*** Harmful effect due to pH shift.

Harmful effect on aquatic organisms cannot be excluded in the event of improper handling or disposal.

Neutralise prior to passing into drainage system.

***Chemical Reaction:***

***Bioaccumulation potential:***

***Toxicity:***

Harmful effect due to pH shift. Harmful effect on aquatic organisms cannot be excluded in the event of improper handling or disposal. Neutralise prior to passing into drainage system.

### 13. Disposal Considerations

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

### 14. Transport Information

Land Transport ADR:

UN: 1824

PK: II

Class: 8, ,

Proper Shipping Name: SODIUM HYDROXIDE SOLUTION

LQ: 22



Maritime Transport IMDG:

UN: 1824

PK: II

Class: 8, ,

Marine Pollutant:

Proper Shipping Name: SODIUM HYDROXIDE SOLUTION



Air Transport IATA:

UN: 1824

PK: II

Class: 8, ,

Proper Shipping Name: SODIUM HYDROXIDE SOLUTION



## 15. Regulatory Information

*Labelling according to EC directives*

*Symbol:*

*R-phrases:*

*S-phrases:*

*EC-No.:* N/A

***Local Regulations:***

Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH) regulations.

UK Exposure Limits: OES - Sodium hydroxide:

Long-term: Short-term: 2 mg/m<sup>3</sup>

## 16. Other Information

Date of issue: 24/11/2009

***Important Statement***

The information above is believed to be accurate and represents the best information currently available from multiple crosschecked sources.

However, we make no warranty express or implied, with respect to such information, and we assume no liability resulting from its use.

Users should make their own investigations to determine the suitability of the information for their particular purposes.

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