

REVISION DATE: 08-02-2005



SAFETY DATA SHEET
CAUSTIC SODA

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME CAUSTIC SODA
 PRODUCT NO. CASOGEN
 SUPPLIER J.V. Barrett & Co. Ltd
 Barrettine Works, St Ivel Way
 Warmley
 Bristol BS30 8TY
 0117 9800060
 0117 935 2437

2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
SODIUM HYDROXIDE	215-185-5	1310-73-2	60-100%	C;R35

The Full Text for all R-Phrases are Displayed in Section 16

3 HAZARDS IDENTIFICATION

Causes severe burns.

CLASSIFICATION C;R35.

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention.

INGESTION

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Drink plenty of water. Get medical attention immediately!

SKIN CONTACT

Remove affected person from source of contamination. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Continue to rinse for at least 15 minutes and seek medical attention. Chemical burns must be treated by a physician.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

UNUSUAL FIRE & EXPLOSION HAZARDS

Not flammable. Can react with some metals generating hydrogen gas.

PROTECTIVE MEASURES IN FIRE

Wear self-contained breathing apparatus and full protective clothing.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear suitable protective clothing as specified under section 6 of this safety data sheet - Exposure Controls and Personal Protection.

CAUSTIC SODA

ENVIRONMENTAL PRECAUTIONS

Do not allow spilled material to enter drains or water courses.

SPILL CLEAN UP METHODS

DO NOT touch spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Flush area with plenty of water. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Dispose of in accordance with Local Authority Regulations via a licenced waste carrier.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

Keep containers tightly closed. Store separated from: Acids.

STORAGE CLASS

Corrosive storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
SODIUM HYDROXIDE	OES				2 mg/m3

INGREDIENT COMMENTS

OES = Occupational Exposure Standard.

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Provide eyewash, quick drench.

ENGINEERING MEASURES

No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

RESPIRATORY EQUIPMENT

Do not breathe dust. If dust formation is likely, wear dust mask.

HAND PROTECTION

Use full-length gloves. Use protective gloves made of: Neoprene.

EYE PROTECTION

Wear full-face visor or shield.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Powder, dust	RELATIVE DENSITY	2.13
COLOUR	White	pH-VALUE, DILUTED SOLUTION	>11.5 @ 1 %
SOLUBILITY	Soluble in water		
MELTING POINT (°C)	318		
BULK DENSITY	1.175 kg/m3		
FLASH POINT (°C)	N/A		

10 STABILITY AND REACTIVITY

CAUSTIC SODA

STABILITY

Stable under normal temperature conditions. Absorbs moisture, carbon dioxide.

CONDITIONS TO AVOID

Avoid contact with acids. Evolves hydrogen in contact with aluminium and zinc.

HAZARDOUS DECOMPOSITION PRODUCTS

Not relevant.

11 TOXICOLOGICAL INFORMATION

TDXIC DOSE 1 - LD 50 500 (10% solution) mg/kg (oral rat)

INHALATION

Inhalation may result in severe burns to the respiratory tract.

INGESTION

Causes severe burns. May cause chemical burns in mouth and throat. Ingestion may result in perforation of the oesophagus, vomiting blood, diarrhoea, shock, haemolysis and haemoglobinuria.

SKIN CONTACT

Causes severe burns.

EYE CONTACT

Causes severe burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

ROUTE OF ENTRY

Ingestion. Skin absorption.

12 ECOLOGICAL INFORMATION

MOBILITY

Hygroscopic and very soluble

DEGRADABILITY

Can cause long term adverse effects for the aquatic environment. High pH values and sodium content has a potential to damage soil structure.

ACUTE FISH TOXICITY

Concentrations greater than 10ppm or a pH value above 10.5 may be fatal to fish and other aquatic organisms.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



UK ROAD CLASS	8	UK ROAD PACK GR.	II
PROPER SHIPPING NAME	SODIUM HYDROXIDE, SOLID	ADR CLASS	Class 8: Corrosive substances
UN NO. ROAD	1823	HAZARD No. (ADR)	80
ADR CLASS NO.	8	HAZCHEM CODE	2X
ADR PACK GROUP	II	RID CLASS NO.	8
ADR LABEL NO.	8	UN NO. SEA	1823
CEPIC TEC(R) NO.	80GC8-II+III	IMDG PAGE NO.	8
RID PACK GROUP	II	EMS	F-A, S-B
IMDG CLASS	8		
IMDG PACK GR.	II		

REVISION DATE: 06-02-2005

CAUSTIC SODA

MFAG	See Guide	MARINE POLLUTANT	No.
UN NO. AIR	1823	ICAO CLASS	8
AIR PACK GR.	II		

15 REGULATORY INFORMATION

LABELLING



Corrosive

CONTAINS

SODIUM HYDROXIDE

RISK PHRASES

R35 Causes severe burns.

SAFETY PHRASES

S20 When using do not eat or drink.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S24/25 Avoid contact with skin and eyes.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S1/2 Keep locked up and out of the reach of children.
S27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of .. (to be specified by the manufacturer)
S66 Dispose of this material and its container to hazardous or special waste collection point.

18 OTHER INFORMATION

REVISION DATE 06-02-2005

REV. NO./REPL. SDS GENERATED 003

SDS NO. ADD DATA

DATE 20-03-2003

RISK PHRASES IN FULL

R35 Causes severe burns.