

MATERIAL SAFETY DATA SHEET.

1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

Product name: "Caustic Soda" contains sodium hydroxide solid >98%

SUPPLIER: The Soap Kitchen, 11a South Street, Torrington, Devon, EX38 8AA.

Emergency Tel No: 01805 622944 Emergency Contact: Mr. Richard Phillips.

2. COMPOSITION / INFORMATION ON INGREDIENTS.

% Conc: 100 CAS No: 1310-73-2 Application: Soap manufacture.

EINECS: 213-185-5 Exposure: 2mg/m³ Classification: C: R35

3. HAZARDS IDENTIFICATION:

Most important hazard: Corrosive and caustic. Causes severe injuries in case of contact with skin, eyes, dust inhalation or ingestion.

Specific hazard: Will cause deep ulceration with subsequent scarring. DO NOT MIX WITH ANY OTHER CHEMICALS. Must not be used on Galvanised, Zinc, Aluminium or Acrylic surfaces.

4. FIRST-AID MEASURES:

Inhalation: Symptom: Severe irritation of airways.
Treatment: Remove from exposure, rest and keep warm. In severe cases or if recovery is not rapid or complete SEEK IMMEDIATE MEDICAL ATTENTION.

EYE CONTACT: Symptom: Pain, reddening, watering.
Treatment: Irrigate thoroughly with water for at least 10 minutes. If irritation persists SEEK IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT: Symptom: Irritation, blistering.
Treatment: Drench the skin with plenty of water. Remove contaminated clothing and wash before re-use. If large area of skin is damaged or if irritation persists SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION: Symptom: Stomach upset, burns to the Gastrointestinal tract.
Treatment: Wash out mouth with water. DO NOT INDUCE VOMITING. If patient is conscious, give plenty of water to drink. If patient feels unwell SEEK IMMEDIATE MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES.

EXTINGUISHING MEDIA Use extinguisher suitable to cause of fire. Do not use water jet..

SPECIAL MEASURES: Avoid vapour inhalation. Wear positive pressure self-contained breathing apparatus & protective clothing.

HAZARDOUS PRODUCTS: Non-flammable. Can react with some metals generating hydrogen gas.

Flash point N/A

Autoignition Temperature: N/A

Explosion Limits: N/A

6. ACCIDENTAL RELEASE MEASURES.

SAFETY PRECAUTIONS: Avoid breathing the vapour. Wear appropriate PPE (section 8).

ENVIRONMENT PRECAUTIONS: Keep away from drains, soil, surface & groundwaters.

CLEANING UP METHODS Where possible, transfer to a suitable container for re-use or waste-disposal. Dissolve residue with plenty of water and cautiously neutralize with a weak acid solution then flush to drain with plenty of water.

7. HANDLING & STORAGE.

PRECAUTIONS IN HANDLING:	Good general ventilation. LEV may be required in dusty environments. Use only materials resistant to strong alkali. Avoid direct contact with the product. Avoid inhalation of dust. Keep containers tightly closed.
STORAGE CONDITIONS:	Store in tightly closed original container, in a cool & dry area.
KEEP AWAY FROM:	See section 10.
FIRE PROTECTION:	N/A

8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

RESPIRATORY PROTECTION:	Type approved PPE for dust if OES is likely to be exceeded.
HAND PROTECTION:	PVC gloves.
SKIN PROTECTION:	PVC overalls, apron and boots.
EYE PROTECTION:	Goggles or face-shield. Keep eyewash of clean water to hand.
WORK/HYGIENE PRACTICES:	Wash hands thoroughly after handling.
EXPOSURE LIMITS:	2mg/m ³ STEL
TYPE:	OES

9. PHYSICAL & CHEMICAL PROPERTIES.

APPEARANCE:	Solid white rapidly deliquescent masses.
ODOUR:	None
pH	>11.5 @ 1% solution.
BOILING POINT°C:	1300
MELTING POINT°C:	318
FLASH-POINT °C:	N/A
OXIDISING PROPERTIES:	
SOLUBILITY IN WATER:	42g/100g water @ 0°C 347g/100gwater @ 100°C
SOLUBILITY IN ALCOHOL:	Soluble in alcohol and glycerol.
DENSITY:	2.13g/ml
BULK DENSITY:	1.175g/ml

10. STABILITY & REACTIVITY.

STABILITY:	Stable, absorbs moisture and carbon dioxide.
KNOWN HAZARDOUS REACTION:	Evolves hydrogen in contact with aluminium and zinc. Can react violently with acids and chlorinated hydrocarbons.
CONDITIONS TO AVOID:	Excessive humidity.
MATERIALS TO AVOID:	Acids, aluminium, zinc.

11. TOXICOLOGICAL INFORMATION.

INHALATION:	Inhalation may result in severe burns to respiratory tract.
SKIN:	Skin contact may result in severe burns with permanent damage which are slow to heal.
EYES:	Eye contact may result in severe burns causing permanent eye damage.
INGESTION:	Ingestion may result in perforation of digestion tract. Haemorrhage and severe burns to mouth and throat.

12. ECOLOGICAL INFORMATION.

MOBILITY:	Hygroscopic and very soluble.
DEGRADABILITY:	Can cause long term adverse effects to the aquatic environment. High pH values and sodium content has potential to damage soil Structure.
AQUATIC TOXICITY:	Highly toxic to aquatic organism due to high pH.

13. DISPOSAL CONSIDERATIONS.

Do not pour into drains or dispose of indiscriminately. Obtain the services of a waste disposal contractor and send to a registered tip or burn under controlled conditions in a suitable incinerator.

14. TRANSPORT INFORMATION.

UN Number 1823
PACKAGING GROUP: II
CLASS/ITEM NUMBER: 8 Corrosive.
SHIPPING NAME Sodium Hydroxide solid (caustic soda). Exemption under limited quantities provisions.
CARRIAGE HAZARD WARNING: Corrosive. Subsidiary: TREM-CARD: HAZCHEM EAC.
HI Number: 80

15. REGULATORY INFORMATION. According to Directive 88/379/EEC

CLASSIFICATION: C Corrosive.
RISK PHRASES: R35 Causes severe burns
R41 Risk of serious damage to eyes.
SAFETY PHRASES: S1/2 Keep locked up and out of reach of children.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S24/25 Avoid contact with skin and eyes.
S26/28 In case of contact with eyes or skin, rinse immediately with plenty of water and seek medical advice.
S46 If swallowed drink plenty of milk or water and seek medical advice immediately and show this container label.

16. OTHER INFORMATION.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.