SAFETY DATA SHEET



CAUSTIC SODA LIQUOR, 5% - 50% (11-106 TW)

mcss550

Identification of the substance/preparation and of the company/undertaking

CAUSTIC SODA LIQUOR, 5% -Product name

50% (11-106 TW)

Supplier

Fax No.

Brenntag UK and Ireland

Albion House Rawdon Park Green Lane Yeadon Leeds

LS19 7XX

: SODIUM HYDROXIDE SOLUTION Chemical product name

5-50%

CAUSTIC SODA LIQUOR, 5% -

50% (11-106 TW)

(N.C.E.C. CULHAM) 01865 407333

Telephone No. (0113) 3879200

(0113) 3879280

Formula : NaOH 40.01 **Molecular Mass**

Composition/information on ingredients 2.

Substance/Preparation Substance

Chemical name*	CAS No.	%	EC Number	Symbol	R-Phrases
1) SODIUM HYDROXIDE SOLUTION 5-50%	1310-73-2	5-50	215-185-5	С	R35

* Occupational Exposure Limit(s), if available, are listed in Section 8

CAS No. 1310-73-2 **EINECS Number** 215-185-5

3. Hazards identification

Human health hazards : Causes severe burns

4. First-aid measures

First-Aid measures

Inhalation

Synonyms

EMERGENCY ONLY

TELEPHONE NUMBER

Remove from exposure. Keep warm and at rest. If there is difficulty in breathing, give oxygen. If breathing stops or shows signs of failing, give artificial re spiration. Do not use mouth to mouth ve ntilation. Obtain me dical attention urgently

Ingestion

Wash out mouth with water. Have victim drink 240-300ml of water to dilute stomach contents. Obtain medical attention. Do not induce vomiting.

Skin contact

Immediately flood the skin with large quantities of water, preferably under a shower. Remove contaminated clothing as washing proceeds. Obtain medical attention if blistering occurs or redness persists.

Eye Contact

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention

Effects and symptoms

Inhalation

Exposure to mist may have the following effects:- severe irritation of nose, throat and respiratory tract. pulmonary oedema, bronchitis,

Ingestion

Swallowing may have the following effects:- corrosion of mouth, throat and dige stive tract. nause a. hae mate misis. perforation of the oesophagus. gastric perforation.

Skin contact

Product will cause severe chemical burns. Repeated and/or prolonged contact may lead to dermatitis.

Eve Contact

Liquid or mist will cause conjunctival irritation and possibly corneal damage.

Aggravating conditions

Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation, leading to frequent attacks of bronchial infection.

Notes to physician

: In the case where material has entered the eyes, a sterile pad and bandage should be applied.

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CAUSTIC SODA LIQUOR, 5% - 50% (11-106 TW)

5. Fire-fighting measures

Extinguishing Media

Suitable

: Not combustible. Select extinguishing agent appropriate to other materials involved. Keep containers and surroundings

Unusual fire/explosion Hazards

This product may give rise to hazardous fumes in a fire. Attacks most metals, liberating flammable hydrogen gas which may form an explosive mixture with air.

Hazardous thermal (de)composition products

Attacks many metals liberating hydrogen gas.

Special fire-fighting procedures

: Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

Protection of fire-fighters

: Wear full protective clothing and self-contained breathing apparatus

6. Accidental release measures

Personal Precautions

: Wear appropriate protective clothing. Wear respiratory protection.

Environmental precautions and cleanup methods

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Finally flush area with plenty of water.

Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

7. Handling and storage

Handling

: Use in well ventilated area. Avoid inhaling mist. Avoid contact with eyes, skin and clothing. Emergency shower and eye wash facilities should be readily available.

Storage

Storage area should be: well ventilated. away from incompatible materials.

Storage tanks should be completely enclosed apart from vent and overflow connections.

Storage temperature should be kept below 50 °C. Recomended minimum storage temperature varies with

concentration due to different freezing points.

Suitable storage materials are:- stainless steel. mild steel. nickel. polypropylene. Do not store in:- aluminium and its alloys . brass. lead. copper and its alloys. zinc. tin.

Packaging materials

Recommended use : Use original container.

8. Exposure controls/personal protection

Engineering measures

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mist below their respective threshold limit value. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures

: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingredient Name

EH40 (United Kingdom (UK), 2005).

STEL: 2 mg/m²

Personal protective equipment

1) SODIUM HYDROXIDE ...%

Respiratory system

: Respiratory protection if there is a risk of uncontrolled exposure to mist.

Workplace Exposure Limits

Skin and body

Wear: overall or apron. rubber boots. If there is danger of splashing, wear: PVC or other impermeable suit. rubber apron.

Hands

PVC or rubber gloves.

Eyes

Chemical goggles

9. Physical and chemical properties

Physical state

Colour

Colourless. to Grey

Odour Boiling point Odourless. 105 to 145.

Melting point

Melts between -28 and 15. (depending on concentration)

Variation of melting point is not proportional to concentration.

Density

1.1 to 1.4 g/cm³ Completely soluble.

Solubility

14 [Basic.]

Flash point

Not available

Viscosity

2-78 cP at 20 C.

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Stability and reactivity

Stability

The product is stable.

Conditions to Avoid

Keep away from moisture.

Materials to avoid

Acids. Ammonia. Ammonium salts. Alcohols. Peroxides. Halogenated solvents. Nitroalkanes. Acid anhydrides.

Aluminium. Zinc. Tin. Magnesium. Aldehydes. Ketones. Unsaturated oils. Sugars. Phosphorous.

Hazardous decomposition products

: Attacks many metals liberating hydrogen gas.

Toxicological information

Local effects

Skin irritation

: Extremely hazardous in case of skin contact (corrosive).

Eye irritation

Extremely hazardous in case of eye contact (corrosive).

Acute toxicity

Oral LD50 (rabbit) 500mg/kg. (10% solution)

Inhalation: Burns mucous membranes.

Ingestion: Risk of perforation in the oesophagus and stomach.

Chronic toxicity

Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation, leading to frequent attacks of bronchial

Ecological information 12.

Ecotoxicity

The product is rated as slightly toxic to aquatic species. High concentrations injure aquatic life by effect on pH. Do not allow to enter drains or watercourses

Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging : Dispose of in accordance with all applicable local and national regulations.

Waste Classification

: Not applicable

Transport information

International transport regulations

UN: **UN** number 1824

UN: **Proper shipping name** SODIUM HYDROXIDE SOLUTION (SODIUM HYDROXIDE SOLUTION

5-50%)

Class **Packing group**

UN:

UN: Label

ADR/RID: Class

ADR/RID: Hazard identification number

SODIUM HYDROXIDE SOLUTION (SODIUM HYDROXIDE SOLUTION IMDG: Proper shipping name

5-50%)

IMDG: **Packing group** 8 IMDG: Class

IATA: **Proper shipping name** SODIUM HYDROXIDE SOLUTION (SODIUM HYDROXIDE SOLUTION

5-50%) Ш

IATA: **Packing group** 8 IATA: Class

Regulatory information

EU Regulations

Hazard symbol(s)

Classification Corrosive

Risk Phrases R35 Causes severe burns

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CAUSTIC SODA LIQUOR, 5% - 50% (11-106 TW)

Safety Phrases : S1/2 Keep locked up and out of reach of children.

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).

Contains : - SODIUM HYDROXIDE SOLUTION 5-50%

Product Use : Classification and labe lling have be en performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use.

- Consumer applications.

16. Other information

HISTORY

 Date of printing
 : 21/08/2009.

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 : 12/01/2009.

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Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

CHANGE S	S SINCE PREVIOUS	VERSIONS:	
Vapour replac	ced by mist		
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