

# safety data sheet

## safety data sheet

### 1. Identification of the substance/preparation and company/undertaking

Product name	<b>KLENZ 2</b>
Manufacturer / Supplier	Caustic CIP detergent for medium/hard water with defoamer <b>Klenzan Limited</b> 2, Cameron Court, Winwick Quay, Warrington, Cheshire, WA2 8RE
Telephone	01925 234696
Fax	01925 234693
E-mail	<a href="mailto:info@klenzan.co.uk">info@klenzan.co.uk</a>
Web	<a href="http://www.klenzan.co.uk">www.klenzan.co.uk</a>

### 2. Composition/information on ingredients

Hazardous ingredient(s) > declaration conc'n	CAS No.	EINECS No.	Symbol/R phrases	%w/w
Sodium hydroxide	1310-73-2	215-185-5	C; R35	30-65

### 3. Hazards identification

CHIP classification of product	Corrosive; R35 - Causes severe burns
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### 4. First-aid measures

Inhalation	Remove from exposure. Keep warm and at rest. If there is respiratory distress give oxygen. Obtain medical attention.
Skin contact	Remove contaminated clothing. Wash with large quantities of water, preferably under a shower if affected area is large. Continue to wash affected area for 10 minutes. Obtain medical attention if irritation persists or blistering occurs. Launder contaminated clothing before re-use.
Eye Contact	IMMEDIATELY irrigate the eye with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain medical attention.
Ingestion	Do not induce vomiting. Wash out the mouth with water and give 200-300ml water or milk to drink. Obtain medical attention.
Emergency medical information	<b>The product is registered with the National Poison Information Service (NPIS), which can be accessed by NHS medical professionals only via the TOXBASE internet database or by 24 hour telephone from one of six regional centres: Belfast, Birmingham, Cardiff, Edinburgh, London, Newcastle.</b>

### 5. Fire-fighting measures

Suitable extinguishing media	Non flammable. Select extinguishing media appropriate to other materials involved in and/or to the circumstances of the fire. Keep stored containers cool by spraying with water from a distance.
Specific Hazards	Non flammable and stable under normal conditions.
Special Protective Equipment	Fire fighters should wear self-contained breathing apparatus and full protective body clothing.

## 6. Accidental release measures

Personal Protection	Avoid contact with the product. Wear full PPE.
Environmental protection	Prevent any spillages from reaching watercourses. If a spillage has contaminated watercourses, drains or vegetation immediately inform appropriate authorities (eg. Environment Agency Incident Hotline Tel.: 0800 80 70 60 or for sewers the local waste water authority).
Methods for clean up	Small spillages: dilute - may be washed to <b>foul</b> drain with large quantities of water. Large spillages: contain - prevent the liquid from entering watercourses or drains using inert material such as absorbent, sand, earth, booms. Transfer into suitable containers for disposal as hazardous waste.

## 7. Handling and storage

Handling	Do not mix with other chemical products unless specifically advised by a Klenzan representative.
Storage	Wear appropriate Personal Protective Equipment (see 8.). Store upright in original container away from extremes of temperature.
Incompatible materials	Product is susceptible to freezing – see 9. Aluminium, other soft metals; galvanised steel.

## 8. Exposure Controls/personal protection

<i>Personal Protective Equipment (PPE)</i>							
Respiratory	Not required during normal use.						
Hand	PVC or rubber gloves, preferably gauntlet style.						
Skin and body	Overalls and PVC or rubber apron; wellingtons or rubber boots.						
Eye	Goggles, with a full face shield if there is a risk of splashing.						
<i>Workplace Exposure Limit (WEL)</i>	<table border="1"> <thead> <tr> <th></th> <th>LTEL (8hr TWA)</th> <th>STEL (15min)</th> </tr> </thead> <tbody> <tr> <td>Sodium hydroxide</td> <td>-</td> <td>2 mg/m<sup>3</sup></td> </tr> </tbody> </table>		LTEL (8hr TWA)	STEL (15min)	Sodium hydroxide	-	2 mg/m <sup>3</sup>
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## 9. Physical and chemical properties

Appearance	Opalescent liquid
Colour	Off-white
Odour	None
pH (1%v/v)	>13
Specific gravity (20°C)	1.34
Solubility in Water	soluble
Freezing point (°C)	0 to 5

## 10. Stability and reactivity

Stability	The product is stable under normal storage conditions. On prolonged storage a small amount of antifoam may settle out on the surface.
Reactivity	Highly reactive with aluminium, zinc, lead, tin and alloys producing flammable hydrogen gas. Exothermic (heat-releasing) when diluting with water. Reacts violently with strong acids evolving heat.
Materials to avoid	Soft metals; galvanised steel; chlorinated products.

## 11. Toxicological information

Inhalation	Mist is severely irritating to respiratory tract.
Ingestion	Will immediately cause corrosion of and damage to gastrointestinal tract: lethal dose for man is approximately 5g sodium hydroxide.
Eye contact	Immediately corrosive to cornea and soft tissue with possible permanent impairment of vision.
Skin contact	Corrosive to skin; may cause severe burns with permanent skin damage.
Long term exposure	The severity of the acute effects is such that significant repeated or prolonged exposure is unlikely.

## 12. Ecological information

Ecotoxicity	When used for its intended purpose this product should not cause adverse effects in the environment. The product's constituents are biodegradable and do not bioaccumulate.
Effects on effluent treatment plants	Concentrations in fresh water giving a pH of >10 may be fatal to fish and other aquatic organisms. Can cause damage to aquatic plants and vegetation. Conditions sufficient to render effluent highly alkaline may cause damage to effluent treatment organisms.

## 13. Disposal considerations

Small amounts may be flushed to foul sewer with plenty of water.  
Larger amounts must be disposed of as hazardous waste in accordance with local waste disposal regulations.

## 14. Transport information

Road / ADR	
UN Number	1824
Proper shipping name	Sodium hydroxide solution
Class	8; C5
Packing Group	II
HIN	80
	For further information on sea, rail and air freight transport please contact Klenzan.

## 15. Regulatory information

Classification and symbol(s)	Corrosive; C
Reason for hazard	Contains sodium hydroxide
Risk phrases	R35 - Causes severe burns
Safety Phrases	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 whenever possible).
EC label no.	Not applicable – product is a preparation
UK control regulations	The Chemical (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP3) SI2002/1689 (and as amended). The Control of Substances Hazardous to Health Regulations 2002 (COSHH) SI2002/2677 (and as amended). COSHH Essentials HSG193. The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2004 (CDGUTPER) (and as amended).

## 16. Other information

Issue no.	1
Issue date	20/01/2006
Prepared by	Michael Taylor
Changes from previous issue	n/a

<i>R-phrases: full texts</i>	
R35	Causes severe burns

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