

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

### Product identifier

**Product Form:** Mixture  
**Product name:** SODIUM HYDROXIDE SOLUTION 50%  
**REACH registered number(s):** 01-2119457892-27  
**CAS number:** 1310-73-2  
**EINECS number:** 215-185-5  
**Index number:** 011-002-00-6  
**Synonyms:** CAUSTIC SODA LIQUOR

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

**Use of substance / mixture:** Vegetable oil alkali-refining reagent. Reagent (petrochem desulphurisation). Sodium salt formation agent. Soap raw material. Stripping pH control. Industrial cleaning agent.

**Company name:** Nexchem Ltd  
Unit 3 Barshaw Park  
Leycroft Road  
Leicester  
LE4 1ET  
Tel: 0116 2311130  
24/7 Emergency Tel: 0800 246 1274  
Email: [sales@nexchem.co.uk](mailto:sales@nexchem.co.uk)

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture:

**Classification under CLP:** Skin Corr. 1A: H314; Met. Corr. 1: H290

Full text of H- and EUH-statements: see section 16

**Most important adverse effects:** Causes severe skin burns and eye damage. May be corrosive to metals.

### Label elements:

**Hazard statements:** H290: May be corrosive to metals.  
H314: Causes severe skin burns and eye damage.

**Signal words:** Danger

**Hazard pictograms:** GHS05: Corrosion



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**Precautionary statements:**

P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER/doctor/physician.

**Other hazards:**

**PBT:** Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Mixtures:**

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
SODIUM HYDROXIDE	CAS No.: 1310-185-2 EC No.: 215-185-5 EC Index No.: 011-002-00-6	$\geq 50 - < 80$	Skin Corr. 1A: H314

**Specific Concentration Limits:**

Name	Product Identifier	Specific Concentration Limits
SODIUM HYDROXIDE	CAS No.: 1310-185-2 EC No.: 215-185-5 EC Index No.: 011-002-00-6	( $0.5 \leq C \leq 2$ ) Skin Irrit. 2, H315 ( $0.5 \leq C \leq 2$ ) Eye Irrit. 2, H319 ( $2 \leq C \leq 5$ ) Skin Corr. 1B, H314 ( $5 \leq C < 100$ ) Skin Corr. 1A, H314

Full text of H- and EUH-statements: see section 16

### 4. FIRST AID MEASURES

**Description of first aid measures:**

First-aid measures after inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

First-aid measures after skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Call a physician immediately.

First-aid measures after ingestion: Rinse mouth. Do not induce vomiting. If unconscious, place in the recovery position and seek medical advice. Call a physician immediately.

**Most important symptoms and effects, both acute and delayed:**

Symptoms/effects after inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

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Symptoms/effects after skin contact: May cause immediate skin irritation and blistering. Progressive ulceration will occur if treatment is not immediate.

Symptoms/effects after eye contact: Serious damage to eyes. Corneal burns may occur.

Symptoms/effects after ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

### Indication of any immediate medical attention and special treatment needed:

**Immediate / special treatment:** Get immediate medical attention.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Use water spray to cool containers. Use extinguishing media appropriate for surrounding fire.

### Special hazards arising from the substance or mixture:

Hazardous decomposition products in case of fire: Toxic fumes may be released.

**Advice for fire-fighters:** Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

**Emergency procedures:** Mark out the contaminated area with signs and prevent access to unauthorized personnel. Keep upwind. Notify police and fire brigade as soon as possible. Turn leaking containers leak-side up to prevent the escape of liquid.

For emergency responders

**Protective equipment:** Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions

Do not discharge into drains or rivers. Contain the spilled material by bunding.

Methods and material for containment and cleaning up

**Methods for cleaning up:** Only qualified personnel equipped with suitable protective equipment may intervene. Absorb spilled material with sand or earth. Transfer the product into a spare container: - suitably labelled.

**Other information :** Dispose of materials or solid residues at an authorized site.

Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

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**7. HANDLING AND STORAGE**

**Precautions for safe handling:**

Precautions for safe handling: Avoid the formation of mists in the atmosphere. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Hygiene measures: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

**Conditions for safe storage, including any incompatibilities:**

**Storage conditions:** Keep container tightly closed. Store in a well-ventilated place. Keep cool.

**Specific end use(s):** No additional information available.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

**National occupational exposure and biological limit values**

No additional information available

**Recommended monitoring procedures**

No additional information available

**Air contaminants formed**

No additional information available

**DNEL/PNEC Values:** SODIUM HYDROXIDE SOLUTION 50% (1310-73-2)

Type	Exposure	Value	Population	Effect
DNEL/DMEL	Inhalation (repeated dose)	1mg/m <sup>3</sup>	Workers	Local
DNEL/DMEL	Inhalation (repeated dose)	1mg/m <sup>3</sup>	General Population	Local

**Exposure controls:**

**Appropriate engineering controls**

Appropriate engineering controls: Ensure good ventilation of the workstation.

**Personal protection equipment**

Personal protective equipment symbol(s):



**Eye and face protection**

Eye protection: tightly fitting safety goggles. eye wash

**Skin protection**

Skin and body protection: Impermeable clothing

**Hand protection**

Protective gloves made of PVC. Use rubber gloves. Neoprene protective gloves

[cont...]

### Respiratory protection

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

### Thermal hazards

No additional information available

### Environmental exposure controls

Environmental exposure controls: Avoid release to the environment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

Physical state:	Liquid
Colour:	Colourless.
Odour:	Odourless.
Odour threshold:	No data available
pH:	14
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	3 – 12
Freezing point:	No data available
Boiling point:	115 – 145 °C
Flash point:	> 93 °C
Auto-ignition temperature:	> 93
Decomposition temperature:	No data available
Flammability (solid, gas):	Not applicable
Vapour pressure:	No data available
Relative vapour density at 20°C:	Not applicable.
Relative density:	1.5
Solubility:	Soluble.
Partition coefficient n-octanol/water (Log Pow):	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
Explosive limits:	No data available
Other Information:	No additional information available

## 10. STABILITY AND REACTIVITY

### Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### Chemical stability

Stable under normal conditions.

**Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

**Conditions to avoid**

Heat.

**Incompatible materials**

Strong acids. Strong oxidizing agents.

**Hazardous decomposition products**

On combustion releases: Toxic fumes

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

Acute toxicity (oral): Not classified

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

**SODIUM HYDROXIDE SOLUTION 50% (1310-73-2)**

LD50 oral	500 mg/kg
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Skin corrosion/irritation: Causes severe skin burns.

pH: 14

Serious eye damage/irritation: Assumed to cause serious eye damage

pH: 14

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

**12. ECOLOGICAL INFORMATION**

**Toxicity:**

Ecology - general: Before neutralisation, the product may represent a danger to aquatic organisms.

Hazardous to the aquatic environment, short term: Not classified.

(acute)

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Hazardous to the aquatic environment, long-term: Not classified.

(chronic)

Not rapidly degradable

**Ecotoxicity values:**

Species	Test	Value	Units
FISH	96H LC50	35-139	mg/l

**Persistence and degradability:** Biodegradable.

**Bioaccumulative potential:** No additional information available.

**Mobility in soil:**

**Mobility:** Product readily filters into soil. Soluble in water.

**Results of PBT and vPvB assessment:**

**PBT identification:** This product is not identified as a PBT/vPvB substance.

**Other adverse effects:** No additional information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods:**

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

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**14. TRANSPORT INFORMATION**

In accordance with ADR/IMDG/IATA/AND/RID

ADR	IMDG	IATA	ADN	RID
<b>UN number</b>				
UN 1824	UN 1824	UN 1824	UN 1824	UN 1824
<b>UN proper shipping name</b>				
SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	Sodium hydroxide solution	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION
<b>Transport document description</b>				
UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II, (E)	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II, (E)	UN 1824 Sodium hydroxide solution, 8, II	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II, (E)	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II, (E)
<b>Transport hazard class(es)</b>				
8	8	8	8	8
				
<b>Packing group</b>				
II	II	II	II	II
<b>Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
<b>No supplementary information available</b>				

**Special precautions for user:**

**Overland transport**

Classification code (ADR):	C5
Limited quantities (ADR):	1I
Excepted quantities (ADR):	E2
Packing instructions (ADR):	P001, IBC02
Mixed packing provisions (ADR):	MP15
Portable tank and bulk container instructions (ADR):	T7
Portable tank and bulk container special provisions (ADR):	TP2
Tank code (ADR) : L4BN Tank special provisions (ADR):	TU42

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Vehicle for tank carriage: AT  
Transport category (ADR): 2  
Hazard identification number (Kemler No.): 80  
Orange plates:



Tunnel restriction code (ADR): E  
EAC code: 2R

### Transport by sea

Limited quantities (IMDG): 1 L  
Excepted quantities (IMDG): E2  
Packing instructions (IMDG): P001 IBC  
packing instructions (IMDG): IBC02  
Tank instructions (IMDG): T7  
Tank special provisions (IMDG): TP2  
EmS-No. (Fire): F-A  
EmS-No. (Spillage): S-B  
Stowage category (IMDG): A  
Segregation (IMDG): SGG18, SG35  
Properties and observations (IMDG): Colourless liquid. Colourless liquid. Reacts with Ammonium salts, evolving ammonia gas. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids.

### Air transport

PCA Excepted quantities (IATA): E2  
PCA Limited quantities (IATA): Y840  
PCA limited quantity max net quantity (IATA): 0.5L  
PCA packing instructions (IATA): 851  
PCA max net quantity (IATA): 1L  
CAO packing instructions (IATA): 855  
CAO max net quantity (IATA): 30L  
Special provisions (IATA): A3, A803  
ERG code (IATA): 8L

### Inland waterway transport

Classification code (ADN): C5  
Limited quantities (ADN): 1 L  
Excepted quantities (ADN): E2  
Carriage permitted (ADN): T

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Equipment required (ADN): PP, EP  
Number of blue cones/lights (ADN): 0

### Rail transport

Classification code (RID): C5  
Limited quantities (RID): 1L  
Excepted quantities (RID): E2  
Packing instructions (RID): P001, IBC02  
Mixed packing provisions (RID): MP15  
Portable tank and bulk container instructions (RID): T7  
Portable tank and bulk container special provisions (RID): TP2  
Tank codes for RID tanks (RID): L4BN  
Special provisions for RID tanks (RID): TU42  
Transport category (RID): 2  
Colis express (express parcels) (RID): CE6  
Hazard identification number (RID): 80

Transport in bulk according to Annex II of Marpol and the IBC Code  
Not applicable

## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions.

##### REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances.

##### REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list.

##### PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

##### Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

##### Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

**National regulations** No additional information available

#### Chemical safety assessment

A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

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### 16. OTHER INFORMATION

Abbreviations and acronyms:	
AND	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

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Full text of H- and EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation.
H319	Causes serious eye irritation
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2

Safety Data Sheet (SDS), EU

### Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

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