Safety data sheet
according to UK REACH

Printing date 17.09.2024 Version: 6.00 (replaces version 5.00) Revision: 23.05.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: SONAX Caustic Soda Solution 25%

Article number:
06097050
UFI: QCN0-40CF-600H-M9PJ
1.2 Relevant identified uses of the substance or mixture and uses advised against
Application of the substance / the mixture
pH-corrective agent
Water treatment
Professional uses
Uses advised against Consumer uses: Private households / general public / consumers

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
SONAX GmbH
Münchener Straße 75
D-86633 Neuburg (Donau)
Tel.: ++49 (0)8431/53-0

Further information obtainable from:
Product safety
E-mail: erp@sonax.de
Phone: + +49 (0) 8431 53 217
United Kingdom:
Anglo American Oil Company Ltd
58 Holton Road, Holton Heath Trading Park, Poole, Dorset, BH16 6LT
Telephone: (+44) 01929 551557
Email: info@aaoil.co.uk

1.4 Emergency telephone number:
European Union: +49 (0) 89 19240 (Poison Centre Munich)
United Kingdom: 0344 892 0111 (UK NPIS)
Members of Public in England, Scotland and Wales can contact NHS 111/NHS 24 by dialling 111
In Northern Ireland, contact your local GP

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

Met. Corr.1	H290 May be corrosive to metals.
Skin Corr. 1A	H314 Causes severe skin burns and eye damage.
Eye Dam. 1	H318 Causes serious eye damage.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the GB CLP regulation.
Hazard pictograms

GHS05

Signal word Danger
Hazard statements
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
Precautionary statements
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

(Contd. on page 2)

(Contd. of page 1)

P305+P351+P338 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.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT:
According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as PBT
vPvB:
According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as vPvB.
Determination of endocrine-disrupting properties
The substance/mixture does not contain components considered to have endocrine disrupting properties according to UK REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Solution of sodium hydroxide in water 25%

Dangerous components:		
CAS: 1310-73-2 EINECS: 215-185-5 Reg.nr.: 01-2119457892-27-xxxx	sodium hydroxide Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	25-<50%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information: Immediately remove any clothing soiled by the product.
After inhalation:
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
After skin contact:
Immediately rinse with water.
Cover wound with a sterile dressing.
Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.
After eye contact:
Rinse opened eye for several minutes under running water.
Protect unharmed eye.
Call a doctor immediately.
After swallowing:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
4.2 Most important symptoms and effects, both acute and delayed
Eye irritation / Eye damage
Caustic effect on skin and mucous membranes.

4.3 Indication of any immediate medical attention and special treatment needed
Later observation for pneumonia and pulmonary oedema.
Treatment in accordance with the doctor's assessment of the patient's condition. Symptomatic treatment.

(Contd. on page 3)

(Contd. of page 2)

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
The product is not flammable.
Use fire extinguishing methods suitable to surrounding conditions.
For safety reasons unsuitable extinguishing agents: Water with full jet
5.2 Special hazards arising from the substance or mixture
Exothermic reaction with water.
Reacts with base metals forming hydrogen.
Develops corrosive gases/fumes.
5.3 Advice for firefighters
Protective equipment:
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.
Do not enter the hazardous area without a self-contained breathing apparatus.
See Section 8 for information on personal protection equipment.
Additional information
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
Avoid contact with the eyes and skin.
For non-emergency personnel Wear protective clothing.
For emergency responders Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions:
Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
Inform respective authorities in case of seepage into water course or sewage system.
6.3 Methods and material for containment and cleaning up:
Ensure adequate ventilation.
Use neutralising agent.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Do not breathe vapour.
When diluting always pour product into water and not vice versa.
Information about fire - and explosion protection: The product is not flammable.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Provide alkali-resistant floor.
Store only in the original receptacle.
Information about storage in one common storage facility:
Store away from metals.
Observe local/state/federal regulations.
Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.
Protect from frost.
Recommended storage temperature: 20 °C.

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Protect from heat and direct sunlight.
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
CAS: 1310-73-2 sodium hydroxide	
WEL (Great Britain)	Short-term value: 2 mg/m³
OEL (Ireland)	Short-term value: 2 mg/m³

Regulatory information
WEL (Great Britain): EH40/2020
OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

DNELs		
CAS: 1310-73-2 sodium hydroxide		
Inhalative	DNEL	1 mg/m³ (worker) (chronic locale effects)
	DNEL	1 mg/m³ (consumer) (chronic locale effects)
	DNEL	2 mg/m³ (worker) (acute locale effects)
	DNEL	2 mg/m³ (consumer) (acute locale effects)

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
Suitable technical control devices
Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.
Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Respiratory protection:
Ensure good ventilation/exhaustion at the workplace.
Use suitable respiratory protective device in case of insufficient ventilation.
The following breathing protection is recommended:
Filter P2
Hand protection Protective gloves
Material of gloves
Butyl rubber, BR
Recommended thickness of the material: ≥ 0.5 mm
Penetration time of glove material Value for the permeation: Level 6 (≥480min)
Eye/face protection

Tightly sealed goggles

[EN 166]
Body protection: Alkaline resistant protective clothing

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information

Physical state	Fluid
Colour:	Colourless
Odour:	Odourless
Melting point/freezing point:	Undetermined.

(Contd. on page 5)

(Contd. of page 4)

Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Product is not flammable.
Lower and upper explosion limit	
Lower:	Not applicable
Upper:	Not applicable
Flash point:	Not applicable.
Auto-ignition temperature:	Not applicable.
Decomposition temperature:	Not determined.
pH at 20 °C	>14
Viscosity:	
Kinematic viscosity at 40 °C	<20.5 mm²/s
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.26-1.29 g/cm³
Vapour density	Not determined.

9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not determined.

Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	May be corrosive to metals.
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity Reacts with base metals forming hydrogen.
10.2 Chemical stability Stable under normal conditions.
10.3 Possibility of hazardous reactions
Exothermic reaction with strong acids
Reacts with base metals forming hydrogen.
Danger of explosion.
10.4 Conditions to avoid See Section 7 for information on safe handling.
10.5 Incompatible materials:
acids
Light Metals
aluminum
zinc

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(Contd. of page 5)

organic peroxides
10.6 Hazardous decomposition products:
Hydrogen
Corrosive gases/vapours

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
CAS: 1310-73-2 sodium hydroxide		
Oral	LD50	>2,000 mg/kg (rat)

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.
11.2 Information on other hazards
Endocrine disrupting properties
The substance/mixture does not contain components considered to have endocrine disrupting properties according to UK REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity There are no ecotoxicological data available on this mixture.

Aquatic toxicity:	
CAS: 1310-73-2 sodium hydroxide	
EC50 / 48h	40.4 mg/l (Invertebrates)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential	
CAS: 1310-73-2 sodium hydroxide	
log Kow	-3.88

12.4 Mobility in soil No further relevant information available.
12.5 Results of PBT and vPvB assessment
PBT:
According to information provided in the supply chain, the mix conatins less than 0.1% of any substances classified as PBT
vPvB:
According to information provided in the supply chain, the mix conatins less than 0.1% of any substances classified as vPvB
12.6 Endocrine disrupting properties
According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with effects on the environment.
12.7 Other adverse effects
Additional ecological information:
General notes:
Must not reach sewage water or drainage ditch undiluted or unneutralised.
The product does not contain organically bounded halogens (AOX-free).

(Contd. on page 7)

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The product does not contain organic complexing agents.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation Waste must be disposed of while observing the local, official regulations.

European waste catalogue	
20 01 15*	alkalines L 47/30 16.2.2001 Official Journal of the European Communities EN

Uncleaned packaging:
15 01 10*: packaging containing residues of or contaminated by dangerous substances
Recommendation:
Packaging may be reused or recycled after cleaning.
15 01 02: plastic packaging
Recommended cleansing agents: Water

SECTION 14: Transport information

14.1 UN number or ID number
ADR/RID/ADN, IMDG, IATA UN1824

14.2 UN proper shipping name
ADR/RID/ADN 1824 SODIUM HYDROXIDE SOLUTION
IMDG, IATA SODIUM HYDROXIDE SOLUTION

14.3 Transport hazard class(es)

ADR/RID/ADN

Class 8 (C5) Corrosive substances.
Label 8

IMDG, IATA

Class 8 Corrosive substances.
Label 8

14.4 Packing group
ADR/RID/ADN, IMDG, IATA II

14.5 Environmental hazards:
Marine pollutant: No

14.6 Special precautions for user Warning: Corrosive substances.

Transport/Additional information:

ADR/RID/ADN
Limited quantities (LQ) 1L
Transport category 2
Tunnel restriction code E

UN "Model Regulation": UN1824, SODIUM HYDROXIDE SOLUTION, 8, II

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
European Directives:
Directive 2010/75/EU (VOC) not subject to
Catégorie SEVESO (DIRECTIVE 2012/18/EU) not subject to
REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

National regulations:

Information about limitation of use:
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

Classification according to Regulation (EC) No 1272/2008	
Corrosive to metals	Bridging principles
Skin corrosion/irritation Serious eye damage/irritation	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Date of previous version: 09.06.2022
Version number of previous version: 5.00
Abbreviations and acronyms:
NOEL = No Observed Effect Level
NOEC = No Observed Effect Concentration
LC = letal Concentration
EC50 = half maximal effective concentration
log POW = Octanol / water partition coefficient
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ATE: acute toxicity estimate
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
IOELV = indicative occupational exposure limit values
Met. Corr.1: Corrosive to metals – Category 1
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
*** Data compared to the previous version altered.**