

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date of issue: 01/02/2013 Revision date: 03/04/2025 Supersedes version of: 02/02/2023 Version: 1.4

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

1.1. Product identifier

Trade name IUPAC name EC-No. CAS-No.	Substance Sodium Hydroxide, volumetric solution 1.0 M (1.0 N) sodium hydroxide 215-185-5 1310-73-2 SOHY-1V0
Product code :	SOHY-1V0
Formula	HNaO

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Main use category

: Laboratory use

1.3. Details of the supplier of the safety data sheet

labbox labware s.l. Migjorn, 1 P.O. Box Barcelona (SPAIN) 08338 Premia de Dalt, SPAIN ES T +34 937 07 79 70, F +34 937 909 532 info@labbox.com, www.labbox.com

1.4. Emergency telephone number

Emergency number

: +34 937 077 970 (For technical information_Office Hours) In case of medical emergency phone 112 or to your local emergency number.

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Corrosive to metals, Category 1	H290	
Skin corrosion/irritation, Category 2	H315	
Serious eye damage/eye irritation, Category 2	H319	
Full text of H and EUH statements: see section 16		
Specific concentration limits (%):		
$(0,5 \le C < 2)$		Skin Irrit. 2; H315
$(0,5 \le C < 2)$		Eye Irrit. 2; H319
$(2 \le C < 5)$		Skin Corr. 1B; H314
$(5 \le C < 100)$		Skin Corr. 1A; H314

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
Signal word (CLP)	GHS05 : Warning
Hazard statements (CLP)	 Walning H290 - May be corrosive to metals. H315 - Causes skin irritation. H319 - Causes serious eye irritation.
Precautionary statements (CLP)	 P234 - Keep only in original packaging. P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment (see supplemental first aid instruction on this label).

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Substance type : Mono-constituent			
Name	Product identifier	%	
Sodium Hydroxide, volumetric solution	CAS-No.: 1310-73-2 EC-No.: 215-185-5	1 – 3	

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general First-aid measures after inhalation	 Get medical advice/attention if you feel unwell. Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor. 		
First-aid measures after skin contact	: Wash contaminated clothing before reuse. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.		
First-aid measures after eye contact First-aid measures after ingestion	 Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. Rinse mouth. Give nothing or a little water to drink. Do not induce vomiting. Obtain 		
emergency medical attention. 4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/effects Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	 Causes severe skin burns and eye damage. May cause respiratory irritation. Causes severe burns. Serious damage to eyes. 		
4.3. Indication of any immediate medical attention and special treatment needed			

Never give anything by mouth to an unconscious person.

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SECTION 5: Firefighting measures			
Water spray. Dry powder. Carbon dioxide. Foam. Strong water jet.			
nce or mixture			
fume.			
Stop leak if safe to do so. Exercise caution when fighting any chemical fire. Do not enter fire area without proper protective equipment, including respiratory protection.			
ו			

SECTION 0. Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
General measures	: Absorb spillage to prevent material damage.			
For non-emergency personnel				
Emergency procedures	: Notify police and fire brigade as soon as possible.			
6.2. Environmental precautions				
Prevent entry to sewers and public waters.				
6.3. Methods and material for containment and cleaning up				
For containment Methods for cleaning up	 Collect spillage. Take up liquid spill into absorbent material. Store away from other materials. 			

6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	 Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. 			
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.			
7.2. Conditions for safe storage, including any incompatibilities				
Storage conditions	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed.			
Storage area	: Store in a well-ventilated place. Store away from heat.			
7.3. Specific end use(s)				

Laboratory chemicals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

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Sodium Hydroxide, volumetric solution 1.0 M (1.0 N) (1310-73-2)			
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA	2 mg/m ³		
France - Occupational Exposure Limits			
Local name Hydroxyde de sodium			
VME (OEL TWA) 2 mg/m³			
Remark Valeurs recommandées/admises			
Portugal - Occupational Exposure Limits			
Local name Hidróxido de sódio			
OEL Ceiling	2 mg/m³		
Spain - Occupational Exposure Limits			
Local name	Hidróxido de sodio		
VLA-EC (OEL STEL)	2 mg/m³		
United Kingdom - Occupational Exposure Limits			
Local name	Sodium hydroxide		
WEL STEL 2 mg/m ³			

DNEL and PNEC

Sodium Hydroxide, volumetric solution 1.0 M (1.0 N) (1310-73-2)		
DNEL/DMEL (Workers)		
Long-term - local effects, inhalation	1 mg/m ³	
DNEL/DMEL (General population)		
Long-term - local effects, inhalation	1 mg/m³	

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. EN 374. **Personal protective equipment symbol(s):**



Eye and face protection

Eye protection:

Safety glasses

Eye protection				
Туре		Field of application	Characteristics	Standard
				EN 166

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Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Nitrile rubber (NBR) /

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)	6 (> 480 minutes)	0.2 mm		EN 374-2, EN 374-3, EN 388

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Colour Odour Odour threshold Melting point Freezing point Boiling point Flammability Lower explosion limit Flash point Auto-ignition temperature Decomposition temperature pH Viscosity, kinematic Solubility Partition coefficient n-octanol/water (Log Kow) Vapour pressure Vapour pressure at 50 °C Density Relative density	 Liquid Colourless. odourless. Not available 323 °C Decomposition: 'no' Sublimation: 'no' Not available 1388 °C Atm. press.: 101,325 kPa Decomposition: 'no' Not available N
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
No additional information available		
10.4. Conditions to avoid		
No additional information available		

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10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent. Strong reducing agents.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) Acute toxicity (dermal)	: Not classified : Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information		
12.1. Toxicity		
(acute)	Not classified	
Sodium Hydroxide, volumetric solution 1.0 M	(1.0 N) (1310-73-2)	
EC50 - Daphnia [1]	40,4 mg/l Test organisms (species): Ceriodaphnia sp.	
12.2. Persistence and degradability		
Sodium Hydroxide, volumetric solution 1.0 M	(1.0 N) (1310-73-2)	
Persistence and degradability	Rapidly degradable	
12.3. Bioaccumulative potential		
No additional information available		
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Endocrine disrupting properties		
No additional information available		

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12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Must follow special treatment according to local regulation.

SECTION 14: Transport information

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

14.1. UN	number or II	D number
14.1.01		

UN-No. (ADR)	: UN 1824
UN-No. (IMDG)	: UN 1824
UN-No. (IATA)	: UN 1824
UN-No. (ADN)	: UN 1824
UN-No. (RID)	: UN 1824

14.2. UN proper shipping name

Proper Shipping Name (ADR) Proper Shipping Name (IMDG)	: SODIUM HYDROXIDE SOLUTION : SODIUM HYDROXIDE SOLUTION
Proper Shipping Name (IATA)	: Sodium hydroxide solution
Proper Shipping Name (ADN)	: SODIUM HYDROXIDE SOLUTION
Proper Shipping Name (RID)	: SODIUM HYDROXIDE SOLUTION
Transport document description (ADR) (ADR)	: UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III, (E)
Transport document description (IMDG)	: UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III
Transport document description (IATA)	: UN 1824 Sodium hydroxide solution, 8, III
Transport document description (ADN)	: UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III
Transport document description (RID)	: UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) Danger labels (ADR)



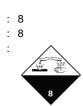
IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)

ΙΑΤΑ

Transport hazard class(es) (IATA) Danger labels (IATA)

: 8 : 8 : .



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ADN Transport hazard class(es) (ADN) Danger labels (ADN)	
RID Transport hazard class(es) (RID) Danger labels (RID)	
14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	: III : III : III : III : III
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant EmS-No. (Fire) EmS-No. (Spillage) Other information	 No No F-A S-B No supplementary information available
14.6. Special precautions for user	
Overland transport Classification code (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Packages (ADR) Hazard identification number (Kemler No.) Orange plates	$ \begin{array}{c} 25 \\ 51 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $
Tunnel restriction code (ADR) EAC code	: E : 2R
Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG)	: 223 : 5 L : E1

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Stowage category (IMDG) Segregation (IMDG) Properties and observations (IMDG)	 A SGG18, SG35 Colourless liquid. Corrosive to aluminium, zinc and tin. 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) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA)	: E1 : Y841 : 1L : 852 : 5L : 856 : 60L : A3, A803 : 8L
Inland waterway transport Classification code (ADN) Limited quantities (ADN) Excepted quantities (ADN) Carriage permitted (ADN) Equipment required (ADN) Number of blue cones/lights (ADN)	: C5 : 5L : E1 : T : PP, EP : 0
Rail transport Classification code (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions (RID) Tank codes for RID tanks (RID) Special provisions for RID tanks (RID) Transport category (RID) Special provisions for carriage – Packages (RID) Colis express (express parcels) (RID) Hazard identification number (RID)	: C5 : 5L : E1 : P001, IBC03, LP01, R001 : MP19 : T4 : TP1 : L4BN : TU42 : 3 : W12 : CE8 : 80

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	
3.	Sodium Hydroxide, volumetric solution 1.0 M (1.0 N)	
3(b)	Sodium Hydroxide, volumetric solution 1.0 M (1.0 N)	

REACH Annex XIV (Authorisation List)

Sodium Hydroxide, volumetric solution 1.0 M (1.0 N) is not on the REACH Annex XIV List

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REACH Candidate List (SVHC)

Sodium Hydroxide, volumetric solution 1.0 M (1.0 N) is not on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Sodium Hydroxide, volumetric solution 1.0 M (1.0 N) is not 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)

Sodium Hydroxide, volumetric solution 1.0 M (1.0 N) is not 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 (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

Dual-Use Regulation (428/2009)

Not listed on the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

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 subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

National regulations

Germany

VOC ordinance (ChemVOCFarbV)	:
Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV)	 WGK 3, Highly hazardous to water (Classification according to AwSV). Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Danish National Regulations	· Young people below the age of 18 years are not allowed to use the product

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information		
Full text of H- and EUH-statements:		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H290	May be corrosive to metals.	

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Full text of H- and EUH-statements:	
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.