

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date of issue: 31.03.2011 Revision date: 18.09.2023 Supersedes version of: 17.04.2023 Version: 2.3

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

### 1.1. Product identifier

Product form : Mixture

Name Sodium hydroxide, concentrated

Trade name UN1824 Sodium hydroxide, concentrated to prepare 1 L of solution 1 M (1 N)

EC-No. : 215-185-5 : 1310-73-2 CAS-No. REACH registration No : 01-2119457892-27 Product code : SOHY-1C0 Formula : NaOH

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

### 1.2.1. Relevant identified uses

Main use category : Laboratory use

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

labbox labware s.l.

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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	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 1A H314 Serious eye damage/eye irritation, Category 1 H318

Full text of H and EUH statements: see section 16

### 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)



GHS05

Signal word (CLP) : Danger

Hazard statements (CLP) : H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P234 - Keep only in original packaging.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

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 or shower.

### Nordic countries regulation

Denmark

MAL code : 00-3 (Executive Order No. 301 (1993))

### 2.3. Other hazards

PBT: not relevant - no registration required

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

# Component Ammonium indicator strips 0-400 mg/l (ppm), 100 strips/pack(1310-73-2) The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ammonium indicator strips 0-400 mg/l (ppm), 100 strips/pack	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Ammonium indicator strips 0-400 mg/l (ppm), 100 strips/pack	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	$(0,5 \le C < 2)$ 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

Full text of H and EUH statements: see section 16

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial

respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Gently wash with plenty of soap and water. Take off contaminated clothing and wash it

before reuse. Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes severe burns.
Symptoms/effects after eye contact : May cause severe irritation.

Symptoms/effects after ingestion : May be harmful if swallowed and enters airways.

### 4.3. Indication of any immediate medical attention and special treatment needed

Never give anything by mouth to an unconscious person.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Water spray. Foam.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Non combustible. Hazardous decomposition products in case of fire : Corrosive vapours.

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Emergency procedures : Ventilate area. Stop release.

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### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

### 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

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 dry area. Store in a cool, well-ventilated place. Labelling.

Special rules on packaging : Keep only in original container. Store in a closed container.

### 7.3. Specific end use(s)

Laboratory chemicals.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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UN1824 Sodium hydroxide, concentrated to prepare 1 L of solution 1 M (1 N) (1310-73-2)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	0,5 mg/m³	
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/m³	

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

### Personal protective equipment:

Avoid all unnecessary exposure. EN 374.

### Personal protective equipment symbol(s):









### 8.2.2.1. Eye and face protection

### Eye protection:

Safety glasses

### 8.2.2.2. Skin protection

### Skin and body protection:

Wear suitable protective clothing

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### Hand protection:

protective gloves

### 8.2.2.3. Respiratory protection

### Respiratory protection:

Wear appropriate mask. Use respiratory protection

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

### Other information:

The present safety data sheet is consistent with the specific conditions relied on to justify the registration of the substance in accordance with Article 17 or 18 of the REACH regulation. Do not eat, drink or smoke during use. Wash hands with water as a precaution.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid : Colourless. Colour Molecular mass : 40 g/mol Odour : odourless. Odour threshold Not available Not available Melting point Freezing point Not available Boiling point : Not available Flammability : Not available Lower explosion limit : Not available Upper explosion limit : Not available : Not available Flash point Auto-ignition temperature : Not available Decomposition temperature : Not available рΗ : 13 – 14 5% Viscosity, kinematic : Not available Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available Density : 1,2191 g/cm3 200 C : Not available Relative density Relative vapour density at 20 °C : Not available Particle characteristics : Not applicable

### 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Stable in use and storage conditions as recommended in item 7.

### 10.2. Chemical stability

Stable under normal conditions of use.

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### 10.3. Possibility of hazardous reactions

Heavy metals. Reacts violently with (some) acids.

### 10.4. Conditions to avoid

Water, humidity.

### 10.5. Incompatible materials

Aluminium. Metals.

### 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) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : Causes severe skin burns.

pH: 13 - 14 5%

### Ammonium indicator strips 0-400 mg/l (ppm), 100 strips/pack (1310-73-2)

pH 14

Serious eye damage/irritation : Causes serious eye damage.

pH: 13 - 14 5%

### Ammonium indicator strips 0-400 mg/l (ppm), 100 strips/pack (1310-73-2)

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

### 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine : Not applicable

disrupting properties

### 11.2.2. Other information

No additional information available

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

(acuto)

Hazardous to the aquatic environment, long-term

: Not classified

(chronic)

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Ammonium indicator strips 0-400 mg/l (ppm), 100 strips/pack (1310-73-2)	
EC50 - Daphnia [1]	40,4 mg/l Test organisms (species): Ceriodaphnia sp.

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

Ammonium indicator strips 0-400 mg/l (ppm), 100 strips/pack (1310-73-2)		100 strips/pack (1310-73-2)
	Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

### UN1824 Sodium hydroxide, concentrated to prepare 1 L of solution 1 M (1 N) (1310-73-2)

PBT: not relevant - no registration required

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: Not applicable.

### 12.7. Other adverse effects

Other adverse effects : Do not discharge into drains or rivers.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

European List of Waste (LoW) code : 06 02 04\* - sodium and potassium hydroxide

### **SECTION 14: Transport information**

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

### 14.1. UN number or ID number

 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) : SODIUM HYDROXIDE SOLUTION Proper Shipping Name (IMDG) : 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) : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II, (E) Transport document description (IMDG) : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II

Transport document description (IATA) : UN 1824 Sodium hydroxide solution, 8, II

Transport document description (ADN) : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II

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Transport document description (RID) : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II

### 14.3. Transport hazard class(es)

### **ADR**

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



#### **IMDG**

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



### **IATA**

Transport hazard class(es) (IATA) : 8
Danger labels (IATA) : 8



### **ADN**

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8



### RID

Transport hazard class(es) (RID) : 8

Danger labels (RID) : 8



### 14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

### 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

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### 14.6. Special precautions for user

### **Overland transport**

Classification code (ADR) : C5
Limited quantities (ADR) : 11
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 : TP2

(ADR)

Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 2

Hazard identification number (Kemler No.) : 80
Orange plates : 8

80

Tunnel restriction code (ADR) : E

2R

: SG35

EAC code

Transport by sea Limited quantities (IMDG) : 1L Excepted quantities (IMDG) E2 Packing instructions (IMDG) : P001 IBC02 IBC packing instructions (IMDG) T7 Tank instructions (IMDG) TP2 Tank special provisions (IMDG) : F-A EmS-No. (Fire) EmS-No. (Spillage) : S-B Stowage category (IMDG) Α

Properties and observations (IMDG) : Colourless liquid. Reacts with ammonium salts, evolving ammonia

gas. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids.

### Air transport

Segregation (IMDG)

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 : 8L ERG code (IATA)

### **Inland waterway transport**

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

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Portable tank and bulk container instructions (RID) : T7
Portable tank and bulk container special provisions : TP2

(RID)

Tank codes for RID tanks (RID): L4BNTransport category (RID): 2Colis express (express parcels) (RID): CE6Hazard identification number (RID): 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

### 15.1.1. EU-Regulations

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

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	
3.	UN1824 Sodium hydroxide, concentrated to prepare 1 L of solution 1 M (1 N)	
3(b)	UN1824 Sodium hydroxide, concentrated to prepare 1 L of solution 1 M (1 N)	

#### **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 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.

### 15.1.2. National regulations

### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed

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NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: None of the components are listed

: None of the components are listed

: None of the components are listed

**Denmark** 

MAL code : 00-3 (Executive Order No. 301 (1993))

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 Dam. 1	Serious eye damage/eye irritation, Category 1
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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

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.