### 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: 20/05/2025 Supersedes version of: 15/09/2023 Version: 2.4

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

1.1. Product identifier	
Product form Name Trade name UFI EC-No. CAS-No. REACH registration No Product code Formula	<ul> <li>Mixture</li> <li>Sodium hydroxide, concentrated</li> <li>Sodium hydroxide, concentrated to prepare 1 L of solution 0.1 M (0.1 N)</li> <li>0MC0-70G9-800P-4STM</li> <li>215-185-5</li> <li>1310-73-2</li> <li>01-2119457892-27</li> <li>SOHY-01C</li> <li>NaOH</li> </ul>
1.2. Relevant identified uses of the substan	ce 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 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)	<ul> <li>P234 - Keep only in original packaging.</li> <li>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.</li> <li>P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water or shower.</li> </ul>

### 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	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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	Ammonium indicator strips 0-400 mg/l (ppm), 100 strips/pack (1310-73-2)

### SECTION 3: Composition/information on ingredients

### 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	> 5	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

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 ≤ C < 2) Skin Irrit. 2; H315 (0,5 ≤ C < 2) Eye Irrit. 2; H319 (2 ≤ C < 5) Skin Corr. 1B; H314 (5 ≤ C < 100) Skin Corr. 1A; H314

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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 eff	ects, both acute and delayed
Symptoms/effects after inhalation	: Harmful if inhaled.
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. Burns.
4.3. Indication of any immediate media	cal 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 Hazardous decomposition products in case of fire	<ul><li>Non combustible.</li><li>Corrosive vapours.</li></ul>	
5.3. Advice for firefighters		
Firefighting instructions Protection during firefighting	<ul><li>Exercise caution when fighting any chemical fire.</li><li>Do not enter fire area without proper protective equipment, including respiratory protection.</li></ul>	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipm	ent and emergency procedures	
For non-emergency personnel		
Emergency procedures :	Evacuate unnecessary personnel.	
For emergency responders		
Emergency procedures :	Ventilate area. Stop release.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters.		
6.3. Methods and material for containment ar	nd cleaning up	
Methods for cleaning up :	Collect spillage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.	

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### 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 an	ny incompatibilities
Storage conditions	<ul> <li>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.</li> </ul>
Storage temperature	: ≥0°C
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

### National occupational exposure and biological limit values

Sodium hydroxide, concentrated to prepare 1 L of solution 0.1 M (0.1 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/m <sup>3</sup>	
Remark	Valeurs recommandées/admises	
Portugal - Occupational Exposure Limits		
Local name	Hidróxido de sódio	
OEL Ceiling	2 mg/m <sup>3</sup>	
Spain - Occupational Exposure Limits		
Local name	Hidróxido de sodio	
VLA-EC (OEL STEL)	2 mg/m <sup>3</sup>	
United Kingdom - Occupational Exposure Limits		
Local name	Sodium hydroxide	
WEL STEL	2 mg/m <sup>3</sup>	
8.2. Exposure controls		

### Annuanziata anginagzing contra

## Appropriate engineering controls

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

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### 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

#### Skin protection

### Skin and body protection:

Wear suitable protective clothing

Hand protection:

protective gloves

### **Respiratory protection**

**Respiratory protection:** Wear appropriate mask. Use respiratory protection

### **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

Colour: Colourless.Molecular mass: 40 g/molOdour: odourless.Odour threshold: Not availableMelting point: Not availableFreezing point: Not availableBoiling point: Not availableFreezing point: Not availableBoiling point: Not availableElammability: Not availableLower explosion limit: Not availableUpper explosion limit: Not availableFlash point: Not availableAuto-ignition temperature: Not availableDecomposition temperature: Not availablePH: 13 – 14 5%Viscosity, kinematic: Not availableSolubility: Not availablePartition coefficient n-octanol/water (Log Kow): Not availableVapour pressure: Not availableVapour pressure at 50 °C: Not availableDensity: Not availableRelative vapour density at 20 °C: Not availableParticle characteristics: Not applicable	Physical state	: Liguid
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Decomposition temperature:Not availablepH:13 – 14 5%Viscosity, kinematic:Not availableSolubility:Not availablePartition coefficient n-octanol/water (Log Kow):Not availableVapour pressure:Not availableVapour pressure at 50 °C:Not availableDensity:1,119 g/cm³ 20° CRelative density:Not availableRelative vapour density at 20 °C:Not available	Flash point	: Not available
pH: 13 - 14 5%Viscosity, kinematic: Not availableSolubility: Not availablePartition coefficient n-octanol/water (Log Kow): Not availableVapour pressure: Not availableVapour pressure at 50 °C: Not availableDensity: 1,119 g/cm³ 20° CRelative density: Not availableRelative vapour density at 20 °C: Not available	Auto-ignition temperature	: Not available
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Vapour pressure: Not availableVapour pressure at 50 °C: Not availableDensity: 1,119 g/cm³ 20° CRelative density: Not availableRelative vapour density at 20 °C: Not available	Solubility	: Not available
Vapour pressure at 50 °C: Not availableDensity: 1,119 g/cm³ 20° CRelative density: Not availableRelative vapour density at 20 °C: Not available	Partition coefficient n-octanol/water (Log Kow)	: Not available
Density: 1,119 g/cm³ 20° CRelative density: Not availableRelative vapour density at 20 °C: Not available	Vapour pressure	: Not available
Relative density: Not availableRelative vapour density at 20 °C: Not available	Vapour pressure at 50 °C	: Not available
Relative vapour density at 20 °C : Not available	Density	: 1,119 g/cm <sup>3</sup> 20 <sup>0</sup> C
	Relative density	: Not available
Particle characteristics : Not applicable	Relative vapour density at 20 °C	: Not available
	Particle characteristics	: Not applicable

### 9.2. Other information

No additional information available

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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.
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. alkali metals.
10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological informati	on
11.1. Information on hazard classes as de	efined in Regulation (EC) No 1272/2008
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) Skin corrosion/irritation	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Causes severe skin burns. pH: 13 – 14 5%</li> </ul>
Ammonium indicator strips 0-400 mg/l (p	opm), 100 strips/pack (1310-73-2)
рН	14
Serious eye damage/irritation	: Causes serious eye damage. pH: 13 – 14 5%
Ammonium indicator strips 0-400 mg/l (p	opm), 100 strips/pack (1310-73-2)
рН	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	
Endocrine disrupting properties	
Adverse health effects caused by endocrine	: Not applicable

disrupting properties

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SECTION 12: Ecological information	
12.1. Toxicity	
(acute)	Not classified
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	
Sodium hydroxide, concentrated to prepare	1 L of solution 0.1 M (0.1 N) (1310-73-2)
Persistence and degradability	Rapidly degradable
Ammonium indicator strips 0-400 mg/l (ppm	), 100 strips/pack (1310-73-2)
Persistence and degradability	Rapidly degradable
12.3. Bioaccumulative potential	
Ammonium indicator strips 0-400 mg/l (ppm	), 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	
Sodium hydroxide, concentrated to prepare	1 L of solution 0.1 M (0.1 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) Waste treatment methods	<ul> <li>Disposal must be done according to official regulations.</li> <li>Must follow special treatment according to local regulation.</li> </ul>

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

European List of Waste (LoW) code

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

14.1. UN number or ID number		
UN-No. (ADR) UN-No. (IMDG)	: UN 1824 : UN 1824	

: 06 02 04\* - sodium and potassium hydroxide

## Safety Data Sheet

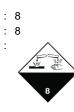
according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	: UN 1824 : UN 1824 : 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) (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
Transport document description (RID)	: UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II

### 14.3. Transport hazard class(es)

### ADR

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



: 8

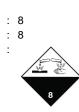
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### IMDG

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

### ΙΑΤΑ

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



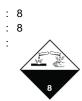


Transport hazard class(es) (ADN) Danger labels (ADN)

## RID

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





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14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	: II : II : II : II : II
14.5. Environmental hazards	
	· Na
Dangerous for the environment Marine pollutant	: No : No
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Other information	: No supplementary information available
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)	
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	80 1824
Tunnel restriction code (ADR)	: E
EAC code	: 2R
Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
Stowage category (IMDG)	: A
Segregation (IMDG)	: SGG18, SG35
Properties and observations (IMDG)	: 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)	: 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)

ERG code (IATA)

: A3, A803

: 8L

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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 1 L E2 T PP, EP 0
Rail transport		<u></u>
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

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)**

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 (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

### Dual-Use Regulation (428/2009)

Contains no substance subject to 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.

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### **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

Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV)	<ul> <li>WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).</li> <li>Is not subject of the Hazardous Incident Ordinance (12. BImSchV)</li> </ul>
Netherlands	
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	<ul> <li>None of the components are listed</li> </ul>
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling Denmark	: None of the components are listed
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
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.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
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.