



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

# Sodium hydroxide solution 1.2 mol/l - 1.2 N solution (deviation: ± 5%)

Revision date: 16.01.2023

Product code: 40066

Page 1 of 10

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

# 1.1. Product identifier

Sodium hydroxide solution 1.2 mol/I - 1.2 N solution (deviation: ± 5%)

UFI:

## NVXJ-13AA-1000-1T13

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

# Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

## Uses advised against

Do not use for private purposes (household).

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

Company name:	AnalytiChem GmbH		
Street:	Stempelstraße 6		
Place:	D-47167 Duisburg		
Telephone:	0203/5194-0	Telefax: 0203/5194-290	
e-mail:	info@analytichem.de		
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117	
e-mail:	produktsicherheit@analytichem.de		
Internet:	www.analytichem.de		
Responsible Department:	Abteilung Produktsicherheit		
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,	
<u>number:</u>	Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canad 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)		

#### **Further Information**

This product is a mixture. REACH Registration Number see section 3.

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008 Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

#### Regulation (EC) No 1272/2008

Hazard components for labelling			
sodium hydroxide			

Signal word:

**Pictograms:** 



Danger

# Hazard statements

H290 H314 May be corrosive to metals. Causes severe skin burns and eye damage.



# Sodium hydroxide solution 1.2 mol/l - 1.2 N solution (deviation: ± 5%)

Revision	date <sup>.</sup>	16.01	2023
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Product code: 40066

Page 2 of 10

## **Precautionary statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.

### 2.3. Other hazards

No information available.

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

### 3.2. Mixtures

#### Chemical characterization

Mixtures in aqueous solution

#### Hazardous components

CAS No	Chemical name			Quantity	
	EC No Index No REACH No				
	Classification (Regulation (EC) No 1272/2008)				
1310-73-2	sodium hydroxide				
	215-185-5	011-002-00-6	01-2119457892-27		
	Met. Corr. 1, Skin Corr. 1A; H290 H314				

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

# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity		
	Specific Conc. Limits, M-factors and ATE				
1310-73-2	215-185-5	odium hydroxide 1 - < 5			
	Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - <   2 Eye Irrit. 2; H319: >= 0,5 - < 2				

#### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection!

### After inhalation

Provide fresh air. Call a physician immediately.

#### After contact with skin

#### Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

# After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.



according to Regulation (EC) No 1907/2006

# Sodium hydroxide solution 1.2 mol/l - 1.2 N solution (deviation: ± 5%)

Revision date: 16.01.2023

Product code: 40066

Page 3 of 10

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

Skin corrosion/irritation Dyspnoea Cough Circulatory collapse Risk of serious damage to eyes.

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

No data available

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

no restriction

# 5.2. Special hazards arising from the substance or mixture

Non-combustible liquids

# 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Avoid contact with skin, eyes and clothes.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

# 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Corrosive to metals.

#### For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

## For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

For containment

# Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

# Sodium hydroxide solution 1.2 mol/l - 1.2 N solution (deviation: ± 5%)

Revision date: 16.01.2023

Product code: 40066

Page 4 of 10

### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

# Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

# 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Do not breathe vapour/aerosol. Read label before use.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

#### Further information on handling

Take off immediately all contaminated clothing and wash it before reuse. If handled uncovered, arrangements with local exhaust ventilation have to be used. Draw up and observe skin protection programme. Wash hands before breaks and after work.

#### 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Provide adequate ventilation as well as local exhaustion at critical locations. Unsuitable container/equipment material: Metal

Aluminium

Tin

Zinc

#### Further information on storage conditions

Keep container tightly closed.

# 7.3. Specific end use(s)

Laboratory chemicals

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	



# Sodium hydroxide solution 1.2 mol/I - 1.2 N solution (deviation: ± 5%)

Revision date: 16.01.2023

Product code: 40066

Page 5 of 10

# **DNEL/DMEL** values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
1310-73-2	sodium hydroxide				
Worker DNEL,	long-term	inhalation	local	1 mg/m³	
Consumer DNEL, long-term		inhalation	local	1 mg/m³	

### 8.2. Exposure controls

## Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Do not breathe vapour/aerosol.

#### Individual protection measures, such as personal protective equipment

### Eye/face protection

Suitable eye protection: goggles.

## Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

## Skin protection

Wear suitable protective clothing.

# **Respiratory protection**

Respiratory protection necessary at: aerosol or mist formation Filtering device with filter or ventilator filtering device of type: P2

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.



# Sodium hydroxide solution 1.2 mol/l - 1.2 N solution (deviation: ± 5%)

Revision date: 16.01.2023

Product code: 40066

Page 6 of 10

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

# 9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and cl	nemical properties	
Physical state:	Liquid	
Colour:	colourless	
Odour:	odourless	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability		
Solid/liquid:		not applicable
Gas:		not applicable
Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Flash point:		Х
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value (at 20 °C):		13,7
Viscosity / kinematic:		No data available
Water solubility:		very soluble
Solubility in other solvents		very soluble
not determined		
Partition coefficient n-octanol/water:		No data available
Vapour pressure:		No data available
Vapour pressure:		No data available
Density (at 20 °C):		1,0491 g/cm <sup>3</sup>
Bulk density:		No data available
Relative vapour density:		No data available
9.2. Other information		
Information with regard to physical h	azard classes	
Explosive properties		
not applicable		
Sustaining combustion:		No data available
Self-ignition temperature		
Solid:		not applicable
Gas:		not applicable
Oxidizing properties		
Not oxidising.		
Other safety characteristics		
Evaporation rate:		No data available
Solvent separation test:		No data available
Solvent content:		0
Solid content:		0
Sublimation point:		No data available
Softening point:		No data available
Pour point:		No data available
Viscosity / dynamic:		No data available
Flow time:		No data available
Further Information		

Corrosive to metals.





# Safety Data Sheet

according to Regulation (EC) No 1907/2006

# Sodium hydroxide solution 1.2 mol/I - 1.2 N solution (deviation: ± 5%)

Revision date: 16.01.2023

Product code: 40066

Page 7 of 10

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Corrosive to metals.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Metal, Light metal (Formation of: Hydrogen) Phenols Combustible substance Alkaline earth metal (Metal powder) Acids, Nitriles

#### 10.4. Conditions to avoid

No data available

#### 10.5. Incompatible materials

Aluminium, Brass, Glass Tin, Zinc, Aluminium plastic

# 10.6. Hazardous decomposition products

No known hazardous decomposition products.

### **Further information**

No data available

## **SECTION 11: Toxicological information**

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

#### Toxicocinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

#### Acute toxicity

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

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

#### Irritation and corrosivity

Causes severe skin burns and eye damage. Causes serious eye damage.

#### Sensitising effects

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

# Carcinogenic/mutagenic/toxic effects for reproduction

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.

#### Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

#### Additional information on tests

There are no data available on the preparation/mixture itself.



AnalytiChem GmbH

according to Regulation (EC) No 1907/2006

# Sodium hydroxide solution 1.2 mol/I - 1.2 N solution (deviation: ± 5%)

Revision date: 16.01.2023	Product code: 40066	Page 8 of 10

# **Practical experience**

There are no data available on the preparation/mixture itself.

# 11.2. Information on other hazards

### Other information

There are no data available on the preparation/mixture itself.

#### **Further information**

Skin corrosion/irritation Dyspnoea Cough Circulatory collapse Risk of serious damage to eyes.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

There are no data available on the preparation/mixture itself.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
1310-73-2	sodium hydroxide	-		-	_	-	
	Acute crustacea toxicity	EC50 mg/l	40,4	48 h		Environmental	other: acute 48-h immobilization test ac

### 12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

#### 12.3. Bioaccumulative potential

not applicable

# 12.4. Mobility in soil

There are no data available on the preparation/mixture itself.

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

Discharge into the environment must be avoided.

#### Further information

Do not allow to enter into surface water or drains.

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

#### 13.1. Waste treatment methods

# **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Do not empty into drains.

Handle contaminated packages in the same way as the substance itself.

#### **Contaminated packaging**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

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



Page 9 of 10

according to Regulation (EC) No 1907/2006

# Sodium hydroxide solution 1.2 mol/I - 1.2 N solution (deviation: ± 5%)

•	e solution 1.2 mol/l - 1.2 N solution (deviation: $\pm$ 5
Revision date: 16.01.2023	Product code: 40066
Land transport (ADR/RID)	
14.1. UN number or ID number:	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	
Hazard label:	8
Classification code:	C5
Limited quantity:	1L
Excepted quantity:	E2
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E
nland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C5
Limited quantity:	1 L
Excepted quantity:	E2
Marine transport (IMDG)	
<u>14.1. UN number or ID number:</u>	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE, SOLUTION
<u>14.3. Transport hazard class(es):</u>	8
14.4. Packing group:	II
Hazard label:	8
Special Provisions:	-
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-A, S-B
Segregation group:	alkalis
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE, SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	
Hazard label:	8
Special Provisions:	A3 A803 0.5 L
Limited quantity Passenger: Passenger LQ:	0.5 L Y840
Excepted quantity:	E2
IATA-packing instructions - Passenger:	851
IATA-max. quantity - Passenger:	1 L
IATA-packing instructions - Cargo:	855
IATA-max. quantity - Cargo:	30 L
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	Νο
14.6. Special precautions for user Warning: strongly corrosive.	
14.7. Maritime transport in bulk according t	o IMO instruments
not applicable	
····	



# Sodium hydroxide solution 1.2 mol/l - 1.2 N solution (deviation: ± 5%)

Revision date: 16.01.2023

Product code: 40066

Page 10 of 10

# **SECTION 15: Regulatory information**

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

	EU regulatory information		
	Restrictions on use (REACH, annex XVII):		
	Entry 3, Entry 75		
	Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)	
	National regulatory information		
	Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).	
	Water hazard class (D):	1 - slightly hazardous to water	

# **SECTION 16: Other information**

#### Abbreviations and acronyms

ADR: Accord européen sur le transport 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 GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP] 

Classification procedure
On basis of test data
Calculation method
Calculation method

# Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

# **Further Information**

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)