

## Sodium hydroxide solution 0.1 mol/I - 0.1 N solution titrant for METROHM

Revision date: 22.03.2024

Product code: 22008

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

### 1.1. Product identifier

Sodium hydroxide solution 0.1 mol/l - 0.1 N solution titrant for METROHM

UFI:

HGXX-717Q-300E-V652

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

### Use of the substance/mixture

Laboratory chemical

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). No data available

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

Company name:	AnalytiChem GmbH	
	ACD	
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 Dangerou	s Goods] Incidents Spill, Leak, Fire,
<u>number:</u>	Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada 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

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

Pictograms:

## Regulation (EC) No 1272/2008

Signal word:





## Hazard statements

H290

May be corrosive to metals.

#### **Precautionary statements**

P234	Keep only in original packaging.
P390	Absorb spillage to prevent material damage.



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Store in a corrosion-resistant container with a resistant inner liner.

### 2.3. Other hazards

No information available.

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

## 3.2. Mixtures

Chemical characterization Mixtures in aqueous solution

#### **Relevant ingredients**

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	Classification (Regulatio	n (EC) No 1272/2008)		
1310-73-2	-2 sodium hydroxide		< 1 %	
	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	sodium hydroxide	< 1 %	
	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** 

No data available

### After inhalation

Provide fresh air.

#### After contact with skin

Take off immediately all contaminated clothing and wash it before reuse. Wash immediately with: Water

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

### After ingestion

Rinse mouth immediately and drink plenty of water. Call a doctor if you feel unwell.

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

#### **4.3. Indication of any immediate medical attention and special treatment needed** No data available



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### **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

Wear a self-contained breathing apparatus and chemical protective clothing. Avoid contact with skin, eyes and clothes.

#### Additional information

Suppress gases/vapours/mists with water spray jet.

### **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

No special environmental measures are necessary.

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

## 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**

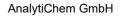
### 7.1. Precautions for safe handling

## Advice on safe handling

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

## Advice on protection against fire and explosion

No special fire protection measures are necessary.





# Safety Data Sheet

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### 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

Keep container tightly closed. Unsuitable container/equipment material: Metal Aluminium Tin Zinc

## Further information on storage conditions

Store in a dry place. storage temperature: +15°C - +25°C.

#### 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)	

## **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 DNE	EL, 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.

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

Wear 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



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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

### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

#### **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 or initial boiling point and boiling range: Flammability: Lower explosion limits: Upper explosion limits: Upper explosion limits: Flash point: Auto-ignition temperature: Decomposition temperature: pH-Value: Viscosity / kinematic: Water solubility:	Liquid colourless odourless not determined	not determined not applicable not determined not determined X not determined not determined 12,7 not determined
Water solubility: Solubility in other solvents not determined		very soluble
Dissolution rate: Partition coefficient n-octanol/water: Dispersion stability:		not determined not determined not determined



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Vapour pressure:	not determined			
Vapour pressure:	not determined			
Density:	1,0028 g/cm³			
Relative density:	not determined			
Bulk density:	not determined			
Relative vapour density:	not determined			
Particle characteristics:	not determined			
9.2. Other information				
Information with regard to physical hazard	classes			
Explosive properties				
not determined				
Sustaining combustion:	No data available			
Self-ignition temperature				
Solid:	not applicable			
Gas:	not applicable			
Oxidizing properties				
Not oxidising.				
Other safety characteristics				
Evaporation rate:	not determined			
Solvent separation test:	not determined			
Solvent content:	not determined			
Solid content:	not determined			
Sublimation point:	not determined			
Softening point:	not determined			
Pour point:	not determined			
not determined:				
Viscosity / dynamic:	not determined			
Flow time:	not determined			
Further Information				

Corrosive to metals.

## **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

No data available

10.4. Conditions to avoid

No data available

## 10.5. Incompatible materials

Metal Aluminium Tin Zinc

## 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## Further information

No data available



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## **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 mixture itself.

### Acute toxicity

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

## ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

#### Irritation and corrosivity

Based on available data, the classification criteria are not met. slightly irritant but not relevant for classification.

#### 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.

#### Information on likely routes of exposure

There are no data available on the mixture itself.

#### Specific effects in experiment on an animal

There are no data available on the mixture itself.

#### Additional information on tests

There are no data available on the mixture itself.

#### **Practical experience**

There are no data available on the mixture itself.

## 11.2. Information on other hazards

#### **Endocrine disrupting properties**

There are no data available on the mixture itself.

#### Other information

There are no data available on the mixture itself.

#### **Further information**

There are no data available on the mixture itself.

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

## 12.1. Toxicity

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

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



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## 12.2. Persistence and degradability

There are no data available on the mixture itself.

## 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

#### 12.4. Mobility in soil

There are no data available on the 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.

There are no data available on the mixture itself.

## 12.7. Other adverse effects

There are no data available on the mixture itself.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

## **Disposal recommendations**

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

### 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**

#### 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:	III
Hazard label:	8
Classification code:	C5
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E
Inland 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:	III
Hazard label:	8
Classification code:	C5
Limited quantity:	5 L
Excepted quantity:	E1
Marine transport (IMDG)	
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:	111



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Hazard label:	8	
Special Provisions:	223	
Limited quantity:	5 L	
Excepted quantity:	E1	
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:	III	
Hazard label:	8	
Special Provisions:	A3 A803	
Limited quantity Passenger:	1L	
Passenger LQ:	Y841	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:	852	
IATA-max. quantity - Passenger:	5 L	
IATA-packing instructions - Cargo:	856	
IATA-max. quantity - Cargo:	60 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for user		
Warning: strongly corrosive.		
14.7. Maritime transport in bulk according to	o IMO instruments	
not applicable		
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regul	lations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII):		
. ,		
Entry 75		
Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)	
National regulatory information		
Water hazard class (D):	non-hazardous to water	
SECTION 16: Other information		

#### Changes

This data sheet contains changes from the previous version in section(s): 1,9,12.



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## Abbreviations and acronyms

Met. Corr: Substance or mixture corrosive to metals

Skin Corr: Skin corrosion

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	Classification procedure
Met. Corr. 1; H290	On basis of test data

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

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

### **Further Information**

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)