

Sodium hydroxide solution 5 mol/l - 5 N solution with 10 g Na2SO3/l

Revision date: 28.02.2024

Product code: 01254

Page 1 of 11

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

1.1. Product identifier

Sodium hydroxide solution 5 mol/l - 5 N solution with 10 g Na2SO3/l

UFI:

WPF3-V09U-E00M-A783

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	
	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 Dangerous (Goods] Incidents Spill, Leak, Fire,
number:	Exposure, or Accident Call CHEMTREC 1-800-424-9300 Outside USA and Canac accepted)	, ,

Further Information

inapplicable, this product is a mixture REACH registration number see section 3

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation Hazard components for labelling sodium hydroxide Danger

Signal word:

Pictograms:





Sodium hydroxide solution 5 mol/l - 5 N solution with 10 g Na2SO3/l

Revision date: 28.02.2024	Product code: 01254	Page 2 of 11
Hazard statements		
H290	May be corrosive to metals.	
H314	Causes severe skin burns and eye damage.	
Precautionary statemen	its	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P308	IF exposed or concerned:	
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

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
1310-73-2	sodium hydroxide	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. I	imits, M-factors and ATE	
1310-73-2	215-185-5	sodium hydroxide	15 - < 20 %
	,	1314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 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.



Safety Data Sheet

according to UK REACH Regulation

Sodium hydroxide solution 5 mol/l - 5 N solution with 10 g Na2SO3/l

Revision date: 28.02.2024

Product code: 01254

Page 3 of 11

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.

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

Protect uninjured eye.

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

corrosive Irritant 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-flammable.

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. 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 Consult an expert 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.



Sodium hydroxide solution 5 mol/l - 5 N solution with 10 g Na2SO3/l

Revision date: 28.02.2024

Product code: 01254

Page 4 of 11

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).

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. Handle and open container with care. When using do not eat, drink, smoke, sniff. Use personal protection equipment. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol.

Advice on protection against fire and explosion

Usual measures for fire prevention.

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

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Corrosive to metals. Unsuitable container/equipment material: Metal, Aluminium, Zinc, tin

Hints on joint storage

national regulations

Further information on storage conditions

Store in a dry place.

Keep container tightly closed.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



Sodium hydroxide solution 5 mol/l - 5 N solution with 10 g Na2SO3/l

Revision date: 28.02.2024

Product code: 01254

Page 5 of 11

Exposure limits (EH40)

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

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/m ³			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.

Suitable examples are gloves of KCL GmbH, D-36124 Eichenzell, e-mail: vertrieb@kcl.de with the following specification (test according to EN 374):

By long-term hand contactTrade name/designation:KCL 741 Dermatril® LRecommended material:NBR (Nitrile rubber) 0,11 mmWearing 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



Sodium hydroxide solution 5 mol/l - 5 N solution with 10 g Na2SO3/l

Revision date: 28.02.2024

Product code: 01254

Page 6 of 11

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

9.1. Information on basic physical and che	mical 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:		not applicable
		not applicable
Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Flash point:		Х
Auto-ignition temperature:		not applicable
Decomposition temperature:		not determined
pH-Value:		alkaline
Viscosity / kinematic:		No data available
Water solubility:		completely miscible
Solubility in other solvents		
not determined		
Dissolution rate:		No data available
Partition coefficient n-octanol/water:		not determined
Dispersion stability:		No data available
Vapour pressure:		No data available
Vapour pressure:		No data available
Density (at 20 °C):		1,19224 g/cm³
Relative density:		No data available
Bulk density:		No data available
Relative vapour density:		not determined
Particle characteristics:		No data available
9.2. Other information		
Information with regard to physical haz	ard 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:		not determined
Solvent separation test:		No data available
Solvent content:		No data available
Solid content:		not determined
Sublimation point:		No data available
Softening point:		No data available
Pour point:		No data available



Sodium hydroxide solution 5 mol/I - 5 N solution with 10 g Na2SO3/I

Revision date: 28.02.2024	Product code: 01254	Page 7 of 11
No data available:		
Viscosity / dynamic:	No data available	

No data available

Viscosity / dynamic: Flow time:

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

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

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Aluminium, Brass metals (including their alloys), Zinc Tin, Light metal Glass, plastics Material, containing silicate

10.6. Hazardous decomposition products

No data available

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

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.

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects). Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.

Mucous membrane initation in the mouth, throat, esophagus and

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

Causes severe skin burns and eye damage.

Causes serious eye damage.

Risk of serious damage to eyes.

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.



	Sodium hyd	droxide solut	ion 5 mol/l	- 5 N solution	with 10 g Na2SO3/I	
Revision date	28.02.2024		Product c	ode: 01254		Page 8 of 11
	gle exposure I on available data, the cla	assification criter	ria are not me	et.		
	eated exposure I on available data, the cla	assification criter	ria are not me	et.		
Aspiration Based	n hazard I on available data, the cla	assification criter	ria are not me	et.		
Informatio	on on likely routes of ex are no data available on	posure				
	effects in experiment on are no data available on		f.			
	I information on tests are no data available on	the mixture itsel	f.			
	experience are no data available on	the mixture itsel	f.			
<u>11.2. Informa</u>	ition on other hazards					
	e disrupting properties are no data available on	the mixture itsel	f.			
Other info There	ormation are no data available on	the mixture itsel	f.			
Further infor corros Irritant Dyspn Cough Circula	ive t loea					
SECTION 12	2: Ecological informat	ion				
<u>12.1. Toxicity</u> There	<i>L</i> are no data available on	the mixture itsel	f.			
CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d	Species	Source	Method
1310-73-2	sodium hydroxide					
	Acute crustacea toxicity	EC50 40,4	4 48	n Ceriodaphnia sp.	Ecotoxicology and	other: acute 48-h

12 2	Persistence	and	degradability	

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

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

mg/l

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 UK REACH. 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.

immobilization

test ac

Environmental

Safety,4



Sodium hydroxide solution 5 mol/l - 5 N solution with 10 g Na2SO3/l

Revision date: 28.02.2024

Product code: 01254

Page 9 of 11

12.7. Other adverse effects

Discharge into the environment must be avoided.

Further information

Do not allow to enter into surface water or drains. Harmful effect due to pH shift.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not allow to enter into surface water or drains. Do not mix with other wastes.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself. 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:	II
Hazard label:	8
Classification code:	C5
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
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:	II
Hazard label:	8
Classification code:	C5
Limited quantity:	1L
Excepted quantity:	E2
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:	II
Hazard label:	8
Special Provisions:	-
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-A, S-B
Air transport (ICAO-TI/IATA-DGR)	

Air transport (ICAO-TI/IATA-DGR)



Safety Data Sheet

according to UK REACH Regulation

Sodium hydroxide solution 5 mol/I - 5 N solution with 10 g Na2SO3/I

Revision date: 28.02.2024	Product code: 01254	Page 10 of 11
14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity Passenger:Passenger LQ:Excepted quantity:IATA-packing instructions - Passenger:IATA-packing instructions - Cargo:IATA-max. quantity - Cargo:	UN 1824 SODIUM HYDROXIDE SOLUTION 8 II 8 A3 A803 0.5 L Y840 E2 851 1 L 855 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 to not applicable SECTION 15: Regulatory information	IMO instruments	
	ations (legislation apositis for the substance or minture	
EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 75 Information according to Directive 2012/18/EU (SEVESO III):	ations/legislation specific for the substance or mixture Not subject to 2012/18/EU (SEVESO III)	
National regulatory information		
Employment restrictions: Water hazard class (D):	Observe restrictions to employment for juveniles according to the 'juver work protection guideline' (94/33/EC). 1 - slightly hazardous to water	nile
SECTION 16: Other information		
Changes This data sheet contains changes from Abbreviations and acronyms	the previous version in section(s): 1,9.	

Met. Corr: Corrosive to metals Skin Corr: Skin corrosion Eye Dam: Eye damage 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%



Safety Data Sheet

according to UK REACH Regulation

Sodium hydroxide solution 5 mol/l - 5 N solution with 10 g Na2SO3/l

Revision date: 28.02.2024

Product code: 01254

Page 11 of 11

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	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

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. Provide appropriate information, instructions and training to users

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