

Silicate stock solution 5	0 mg SiO2/I SiCl4 in sodium hy to EN I	vdroxide solution 0.05 mol/l accor	ding
Revision date: 19.04.2024	Product code: 1938	4	Page 1 of 10
SECTION 1: Identification of the s	ubstance/mixture and of the com	pany/undertaking	
C C	O2/I SiCl4 in sodium hydroxide solutior	C C	
1.2. Relevant identified uses of the su	ubstance or mixture and uses advise	d against	
	nces as such or in preparations at indu in (administration, education, entertain		
Uses advised against Do not use for private purposes	(household). No data available		
1.3. Details of the supplier of the safe			
Company name:	AnalytiChem GmbH ACD		
Street: Place:	Stempelstraße 6 D-47167 Duisburg		
Telephone: E-mail:	0203/5194-0 info@analytichem.de	Telefax: 0203/5194-290	
Contact person: E-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit	Telephone:0203/5194-107/117	
<u>1.4. Emergency telephone</u> number:	Exposure, or Accident Call CHEMTR	ous Goods] Incidents Spill, Leak, Fire, REC Day or Night Within USA and Canada anada: +1 703-741-5970 (collect calls	:
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:

Warning



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 (Regulation (EC) No	1272/2008)		
1310-73-2	sodium hydroxide	hydroxide		< 1 %
	215-185-5	011-002-00-6	01-2119457892-27	
	Met. Corr. 1, Skin Corr. 1A; H290 F	1314		
14808-60-7	Quartz (SiO2)			< 0.01 %
	238-878-4			

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	Limits, M-factors and ATE	
1310-73-2	215-185-5	sodium hydroxide	< 1 %
	· · · ·	- 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

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.



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<u>4.2. Most important symptoms and effects, t</u> Irritant	both acute and delayed	
4.3. Indication of any immediate medical atte No data available	ention and special treatment needed	
SECTION 5: Firefighting measures		
5.1. Extinguishing media Suitable extinguishing media	a fire ourroundings	
Co-ordinate fire-fighting measures to th Unsuitable extinguishing media no restriction	ie nie surroundings.	
5.2. Special hazards arising from the substa Non-combustible liquids	nce or mixture	
5.3. Advice for firefighters Wear a self-contained breathing appara Avoid contact with skin, eyes and clothe		
Additional information Suppress gases/vapours/mists with wa	ter spray jet.	
SECTION 6: Accidental release measure	es	
6.1. Personal precautions, protective equipm General advice Corrosive to metals.	nent and emergency procedures	
For non-emergency personnel Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothe Remove persons to safety. Emergency procedures Consult an expert Do not breathe dust/fume/gas/mist/vap		
For emergency responders	ncy responders : Personal protection equipment: see section	n 8
6.2. Environmental precautions No special environmental measures are	e necessary.	
6.3. Methods and material for containment a	ind cleaning up	

For containment

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



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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.

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
14808-60-7	Quartz, respirable dust (crystalline silica)	-	0.1		TWA (8 h)	
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



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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

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 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.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

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:	Liquid
Colour:	colourless
Odour:	odourless



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Odour threshold:	not determined	
Melting point/freezing point:	not determined	
Boiling point or initial boiling point and	not determined	
boiling range:		
Flammability:	not applicable	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	Х	
Auto-ignition temperature:	not determined	
Decomposition temperature:	not determined	
pH-Value:	alkaline	
Viscosity / kinematic:	not determined	
Water solubility:	very soluble	
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	not determined	
Vapour pressure:	not determined	
Density:	1,002 g/cm³	
Bulk density:	not determined	
Relative vapour density:	not determined	
9.2. Other information		
Information with regard to physical haz	ard 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:	0	
Solid content:	0	
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		

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.



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10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Metal Aluminium Tin 7inc

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 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

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/eye irritation: 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

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: 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 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



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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 40,4 mg/l	48 h Ceriodaphnia sp.	5,	other: acute 48-h immobilization test ac

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.

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:	111
Hazard label:	8
Classification code:	C5
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3



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according to Regulation (EC) No 1907/2006

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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:		
Hazard label:	8	
Classification code:	C5 5 L	
Limited quantity: Excepted quantity:	5L E1	
	E!	
Marine transport (IMDG)		
14.1. UN number or ID number:	UN 1824 SODIUM HYDROXIDE SOLUTION	
<u>14.2. UN proper shipping name:</u> 14.3. Transport hazard class(es):	8	
14.3. Transport hazard class(es): 14.4. Packing group:	8 III	
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:	1 L	
Passenger LQ:	Y841	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:	852	
IATA-max. quantity - Passenger:	5 L 856	
IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	60 L	
	00 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for user Warning: strongly corrosive.		
14.7. Maritime transport in bulk according t	o IMO instruments	
not applicable		
SECTION 15: Regulatory information		
15.1. Safety, health and environmental requ	lations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII): Entry 75		
Information according to Directive	Not subject to 2012/18/EU (SEVESO III)	

2012/18/EU (SEVESO III):



Met. Corr. 1; H290

H290

H314

Further Information

according to Regulation (EC) No 1907/2006

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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): 9,12.		
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	

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 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

On basis of test data

Causes severe skin burns and eye damage.

May be corrosive to metals.

Relevant H and EUH statements (number and full text)

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