

Silicon standard solution 1.0 mg Si/I = 2.1 mg SiO2/I sodium silicate with traces of NaOH in water f					
Revision date: 17.08.2023	Product code: 2702	3	Page 1 of 8		
SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1. Product identifier Silicon standard solution 1.0	mg Si/l = 2.1 mg SiO2/l sodium silicate wi	th traces of NaOH in water f			
1.2. Relevant identified uses of the	1.2. Relevant identified uses of the substance or mixture and uses advised against				
	tances as such or in preparations at indus main (administration, education, entertaini				
Uses advised against					
Do not use for private purpos	ses (household).				
1.3. Details of the supplier of the s	<u>afety data sheet</u>				
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				
<u>1.4. Emergency telephone</u> number:	For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, 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					
inapplicable, this product is a mixture REACH registration number see section 3					
SECTION 2: Hazards identificat	ion				

# 2.1. Classification of the substance or mixture

#### **GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

# 2.2. Label elements

#### 2.3. Other hazards

No data available

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

#### 3.2. Mixtures

Chemical characterization Mixtures in aqueous solution

#### Hazardous components

none (according to UK REACH Regulation)

# **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).



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# **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.

#### 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

No data available

#### 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.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers.

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

# 6.1. Personal precautions, protective equipment and emergency procedures

#### 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.



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#### 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

Handle and open container with care. Keep container tightly closed. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Advice on general occupational hygiene

Wash contaminated clothing prior to re-use. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

#### Further information on handling

Wash contaminated clothing before reuse. 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.

# Hints on joint storage

No data available

# Further information on storage conditions

Store in a dry place.

# 7.3. Specific end use(s)

Laboratory chemicals

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

#### 8.1. Control parameters

#### 8.2. Exposure controls

#### Appropriate engineering controls

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

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

#### Eye/face protection

goggles



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#### Hand protection

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 contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11mm Wearing time with permanent contact: >480min

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

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.

Wash hands before breaks and after work.

#### **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:	Liquid colourless odourless	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		No data available
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		5,3
Viscosity / kinematic:		No data available
Water solubility:		No data available
Solubility in other solvents		
No data available		
Partition coefficient n-octanol/water:		No data available
Vapour pressure:		No data available
Vapour pressure:		No data available
Density:		No data available
Bulk density:		No data available



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Relative vapour density:	No data available			
9.2. Other information				
Information with regard to physical hazard	classes			
Explosive properties				
No data available				
Sustaining combustion:	No data available			
Self-ignition temperature				
Solid:	No data available			
Gas:	No data available			
Oxidizing properties				
No data available				
Other safety characteristics				
Evaporation rate:	No data available			
Solvent separation test:	No data available			
Solvent content:	No data available			
Solid content:	No data available			
Sublimation point:	No data available			
Softening point:	No data available			
Pour point:	No data available			
No data available:				
Viscosity / dynamic:	No data available			
Flow time:	No data available			
Further Information				
No data available				

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No data available

#### 10.2. Chemical stability

No data available

#### 10.3. Possibility of hazardous reactions

No data available

# 10.4. Conditions to avoid

No data available

#### 10.5. Incompatible materials No data available

#### 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

No data available

#### Acute toxicity

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



# Silicon standard solution 1.0 mg Si/I = 2.1 mg SiO2/I sodium silicate with traces of NaOH in water f Revision date: 17.08.2023 Product code: 27023 Page 6 of 8 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. 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 No data available Additional information on tests No data available **Practical experience** No data available

#### 11.2. Information on other hazards

Other information No data available

#### Further information

No data available

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

#### 12.1. Toxicity

No data available

# 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. No data available

#### 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**

No data available



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#### **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.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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

#### Land transport (ADR/RID) No dangerous good in sense of this transport regulation. 14.1. UN number or ID number: 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): 14.4. Packing group: No dangerous good in sense of this transport regulation. Inland waterways transport (ADN) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: Marine transport (IMDG) No dangerous good in sense of this transport regulation. 14.1. UN number or ID number:

14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group:

#### Air transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u> 14.2. UN proper shipping name:

14.3. Transport hazard class(es): 14.4. Packing group:

# 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

# 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

#### 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

# **SECTION 15: Regulatory information**

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

No

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

#### Entry 75

#### National regulatory information

Water hazard class (D): Additional information No data available - - non-hazardous to water



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#### **SECTION 16: Other information**

#### Changes

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

#### **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 information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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