

## SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

## sodium silicate liquid, (molar ratio >3.2)

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

### 1.1. Product identifier

Product name Registration number REACH Product type REACH CAS number EC number Formula : sodium silicate liquid, (molar ratio >3.2)

: 01-2119448725-31 Registered with CAS No of the anhydrous form

: Mixture

: 1344-09-8 : 215-687-4

: Na2O.xSiO2 (x>3.2)

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

### 1.2.1 Relevant identified uses

Industrial use Professional use Consumer use

### 1.2.2 Uses advised against

No uses advised against known

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

### Supplier of the safety data sheet

SILMACO nv Industrieweg 90 B-3620 Lanaken ☎ +32 89 73 02 22 ➡ +32 89 72 27 24 info@silmaco.com

### **1.4. Emergency telephone number**

During business hours, 8:00-17:00 (CET) :

+32 89 73 02 22

### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

### 2.2. Label elements

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

P-statements

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

The criteria of PBT and vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006 do not apply to inorganic substances

### SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
1344-09-8 215-687-4	20% <c<40%< td=""><td></td><td></td><td>Constituent</td><td></td></c<40%<>			Constituent	

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### SECTION 4: First aid measures

### 4.1. Description of first aid measures

### General:

If you feel unwell, consult a doctor/medical service.

### After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

### After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water.

### After eye contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

### After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

4.2.1 Acute symptoms After inhalation:

> No effects known. After skin contact: No effects known. After eye contact: No effects known.

After ingestion:

No effects known.

4.2.2 Delayed symptoms No effects known.

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

If applicable and available it will be listed below.

### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

### 5.1.1 Suitable extinguishing media:

Adapt extinguishing media to the environment for surrounding fires.

5.1.2 Unsuitable extinguishing media:

Not applicable.

### 5.2. Special hazards arising from the substance or mixture

No hazardous combustion products known.

### 5.3. Advice for firefighters

### 5.3.1 Instructions:

No specific fire-fighting instructions required.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

### SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- No naked flames.
- 6.1.1 Protective equipment for non-emergency personnel

### See section 8.2

### 6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Suitable protective clothing

### See section 8.2

### 6.2. Environmental precautions

Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply.

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

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See section 13.

### SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed.

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

### 7.2.1 Safe storage requirements:

Meet the legal requirements. Protect against frost.

### 7.2.2 Keep away from:

Heat sources, (strong) acids, metals.

7.2.3 Suitable packaging material:

### Stainless steel.

7.2.4 Non suitable packaging material:

### Zinc, tin, aluminium, copper.

### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

b) National biological limit values

If limit values are applicable and available these will be listed below.

### 8.1.2 Sampling methods

If applicable and available it will be listed below.

### 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

### 8.1.4 Threshold values

DNEL/DMEL - Workers silicic acid, sodium salt

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects dermal	1.59 mg/m³	
	Long-term systemic effects inhalation	5.61 mg/m³	

#### DNEL/DMEL - General population silicic acid, sodium salt

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	1.38 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	0.8 mg/kg bw/day	
	Long-term systemic effects oral	0.8 mg/kg bw/day	

#### PNEC silicic acid, sodium salt

Compartments	Value	Remark
Fresh water	7.5 mg/l	
Marine water	1 mg/l	
Fresh water (intermittent releases)	7.5 mg/l	
STP	348 mg/l	

### 8.1.5 Control banding

If applicable and available it will be listed below.

### 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

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

Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

Respiratory protection not required in normal conditions.

b) Hand protection:

Protective gloves against chemicals (EN 374).

Materials	Remark		
PVC	Good resistance		
rubber	Good resistance		
latex	Good resistance		

c) Eye protection:

Eye protection not required in normal conditions.

d) Skin protection:

Protective clothing (EN 14605 or EN 13034). 8.2.3 Environmental exposure controls:

Soo costions 6.2, 6.2 and 12

See sections 6.2, 6.3 and 13

### SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical form	Liquid
Viscosity	Viscous
Odour	Odourless
Odour threshold	Not applicable
Colour	No data available on colour
Particle size	Not applicable (liquid)
Explosion limits	Not applicable
Flammability	Not classified as flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	10 mPa.s - 30000 mPa.s
Kinematic viscosity	No data available in the literature
Melting point	No data available in the literature
Boiling point	100 °C - 105 °C
Relative vapour density	No data available in the literature
Vapour pressure	No data available in the literature
Solubility	Water ; soluble
Relative density	1.30 - 1.60
Absolute density	1300 kg/m³ - 1600 kg/m³
Decomposition temperature	No data available in the literature
Auto-ignition temperature	Not applicable
Flash point	Not applicable
рН	11 - 13 : 1 %

## 9.2. Other information Solidification (freezing) point

-12 °C - 0 °C

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

Basic reaction.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Violent exothermic reaction with (some) acids.

### 10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

### 10.5. Incompatible materials

(strong) acids, metals.

### **10.6.** Hazardous decomposition products

Reacts slowly with (some) metals: release of highly flammable gases/vapours (hydrogen).

### SECTION 11: Toxicological information

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

### 11.1.1 Test results

Acute toxicity

sodium silicate liquid, (molar ratio >3.2) No (test)data on the mixture available

cic acid, sodium salt									
Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark		
						determination			
Oral	LD50	Equivalent to OECD 401	3400 mg/kg bw		Rat (male / female)	Experimental value			
Dermal	LD50	EPA OPPTS 870.1200	> 5000 mg/kg bw	24 h	Rat (male / female)	Experimental value			
Inhalation	LC50	EPA OPPTS 870.1300	> 2.06 mg/l	4 h	Rat (male / female)	Experimental value			

Conclusion

Not classified for acute toxicity

### **Corrosion/irritation**

### sodium silicate liquid, (molar ratio >3.2)

No (test)data on the mixture available

silicic acid, sodium salt

	Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
							determination	
	Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours		Experimental	
[							value	

**Conclusion** 

Not classified as irritating to the respiratory system

Not classified as irritating to the skin

Not classified as irritating to the eyes

### Respiratory or skin sensitisation

### sodium silicate liquid, (molar ratio >3.2)

No (test)data on the mixture available

silicic acid, sodium	ilicic acid, sodium salt											
Route of exposu	re Result	Method	Exposure time	Observation time	Species	Value determination	Remark					
				point								
Skin	Not sensitizing	OECD 429			Mouse (female)	Experimental value						
						of similar product						

### **Conclusion**

Not classified as sensitizing for inhalation

Not classified as sensitizing for skin

### Specific target organ toxicity

sodium silicate liquid, (molar ratio >3.2)

No (test)data on the mixture available

#### silicic acid, sodium salt Effect Species Route of exposure Parameter Method Value Organ Exposure time Value determination 2400 mg/kg Oral (diet) NOAEL No effect Equivalent to Rat (male / Experimental 4 weeks (daily) OECD 407 bw/day female) value Dermal Data waiving Inhalation Data waiving

**Conclusion** 

Not classified for subchronic toxicity

### Mutagenicity (in vitro)

sodium silicate liquid, (molar ratio >3.2)

No (test)data on the mixture available <u>silicic acid, sodium s</u>alt

SIIIC	licic acid, sodium sait									
	Result	Method	Test substrate	Effect	Value determination	Remark				
	Negative		Chinese hamster lung fibroblasts (V79)		Experimental value					
	Negative		Chinese hamster lung fibroblasts (V79)		Experimental value					

### Mutagenicity (in vivo)

sodium silicate liquid, (molar ratio >3.2)

No (test)data on the mixture available

silicic acid, sodium salt

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Oral (diet))	Equivalent to OECD		Mouse (male)	Bone marrow	Experimental value
	475				

### **Conclusion**

Not classified for mutagenic or genotoxic toxicity

### Carcinogenicity

sodium silicate liquid, (molar ratio >3.2)

No (test)data on the mixture available

silicic acid, sodium salt

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
exposure								
Unknown								Data waiving

**Conclusion** 

Not classified for carcinogenicity

### **Reproductive toxicity**

sodium silicate liquid, (molar ratio >3.2)

No (test)data on the mixture available silicic acid, sodium salt

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	Developmenta I toxicity study	0, 0	18 days (gestation, daily)	Rat (male / female)	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	Developmenta I toxicity study	0, 0	18 days (gestation, daily)	Rat	No effect		Experimental value
ffects on fertility (Oral drinking water))	NOAEL		> 159 mg/kg bw/day		Rat (male / female)	No effect		Experimental value

Conclusion

Not classified for reprotoxic or developmental toxicity

### **Toxicity other effects**

sodium silicate liquid, (molar ratio >3.2) No (test)data on the mixture available

### Chronic effects from short and long-term exposure

sodium silicate liquid, (molar ratio >3.2)

No effects known.

### **11.2.** Information on other hazards

No evidence of endocrine disrupting properties

### SECTION 12: Ecological information

### 12.1. Toxicity

sodium silicate liquid, (molar ratio >3.2)

No (test)data on the mixture available

Judgement is based on the relevant ingredients silicic acid, sodium salt

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	1108 mg/l	96 h	Brachydanio rerio	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity crustacea	EC50	EU Method C.2	1700 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EC0		207 mg/l	72 h	Desmodesmus subspicatus		Fresh water	Experimental value; Biomass
	ErC50		> 345.4 mg/l	72 h	Desmodesmus subspicatus		Fresh water	Experimental value; GLP
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea								Data waiving

#### **Conclusion**

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

### 12.2. Persistence and degradability

Water

Biodegradability: not applicable

### 12.3. Bioaccumulative potential

sodium silicate liquid, (molar ratio >3.2)

	Not applicable (mixture)			
ilicic acid, sodium salt Log Kow				
Log Kow				
Method	Remark	Value	Temperature	Value determination
	No data available in the			
	literature			
onclusion				
Does not contain bioaccur	mulative component(s)			
2.4. Mobility in soil				
silicic acid, sodium salt				
(log) Koc				

Parameter	Method	Value	Value determination
			Data waiving

### **Conclusion**

Contains component(s) with potential for mobility in the soil

### 12.5. Results of PBT and vPvB assessment

The criteria of PBT and vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006 do not apply to inorganic substances.

### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

### 12.7. Other adverse effects

sodium silicate liquid, (molar ratio >3.2)

Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

Water ecotoxicity pH

pH shift

silicic acid, sodium salt

Groundwater Groundwater pollutant

Water ecotoxicity pH

pH shift

### SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

### 13.1.1 Provisions relating to waste

**European Union** 

Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

06 02 99 (wastes from the MFSU of bases: wastes not otherwise specified). The waste code must be assigned by the user, preferably in consultation with the (environmental) authorities concerned.

### 13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

### 13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 04 (metallic packaging).

### SECTION 14: Transport information

### Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14. <u>1. UN number</u>	1	
Transport	Not subject	
14.2. UN proper shipping name		
14.3. Transport hazard class(es)		
Hazard identification number		
Class		
Classification code		

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	sodium sil			•
14.4. Packing group			i	
Packing group				
Labels				
14.5. Environmental ha			20	
14.6. Special precautio	zardous substance mark		no	
Special provisions				
Limited quantities				
	ort in bulk according to IMO inst	ruments	1	
Annex II of MARPO	L 73/78		Not applicable,	based on available data
	latory information			
5.1. Safety, health a European legislation:	nd environmental regula	ations/legislation sp	pecific for the	e substance or mixture
VOC content Directiv	ve 2010/75/FLL			
			- I- I-	
VOC content			Remark	
			Not applica	ble (inorganic)
European drinking w sodium silicate liqu	gistration according to Directive ater standards (98/83/EC and 2 <u>iid, (molar ratio &gt;3.2)</u>	020/2184)	1)	<b>R</b> former
Parameter	Parametric v	alue Note		Reference
Sodium	200 mg/l			Listed in Annex I, Part C, of Directive (EU) 2020/2184 on the quality of water intended for human consumption.
National legislation Th	e Netherlands			
Waterbezwaarlijk	id, (molar ratio >3.2) heid B (4); Algemene	Beoordelingsmethodiel	k (ABM)	
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Waterbezwaarlijk National legislation Fr sodium silicate liqu No data available National legislation Ge sodium silicate liqu Lagerklasse (TRG WGK silicic acid, sodium TA-Luft National legislation Au sodium silicate liqu No data available National legislation Ur sodium silicate liqu	iheid     B (4); Algement       ance     B (4); Algement       id, (molar ratio >3.2)     B       id, (molar ratio >3.2)     B       5510)     12: Nicht brenn       1; Verordnung I     B       salt     S.2.1       Istria     S.2.1       id, (molar ratio >3.2)     S.2.1	bare Flüssigkeiten, die k	einer der vorger	
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LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEC/NOAEL	No Observed Adverse Effect Concentration/No Observed Adverse Effect Level
NOEC/NOEL	No Observed Effect Concentration/No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

## Annex to the extended Safety Data Sheet (eSDS) Silicic acid, sodium salt

# Annex to the extended Safety Data Sheet (eSDS) Identification of the substance or mixture

Product Definition:	UVCB (Substance of Unknown or Variable composition, Complex
	reaction products or Biological materials)
Product Name:	Silicic acid, sodium salt

### SECTION 1: Title of exposure scenario Overview of Exposure Scenarios

Exposure Scenario	01
Short title of exposure	Manufacturing of soluble silicates
scenario	
Sectors of use [SU]	-
Environmental	ERC01
contributing scenarios	
Health contributing	PROC01, PROC02, PROC03, PROC04, PROC05, PROC06,
scenarios	PROC07, PROC08a, PROC08b, PROC09, PROC15, PROC22, PROC23, PROC24, PROC28
Exposure Scenario	02
Short title of exposure scenario	Formulation of powders covering all molar ratios (detergents, adhesives, binders, surface technologies, other applications) - Industrial uses/ Formulation or re-packing
Sectors of use [SU]	SU02a, SU02b, SU04, SU05, SU06b, SU08, SU09, SU13, SU14, SU18, SU19, SU20
Environmental	ERC02, ERC03
contributing scenarios	
Health contributing	PROC01, PROC02, PROC03, PROC04, PROC05, PROC07,
scenarios	PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC14, PROC15, PROC19, PROC21, PROC22, PROC23, PROC24, PROC26, PROC28
Additional Information	Product category [PC]: PC01, PC03, PC08, PC14, PC15, PC20, PC23, PC24, PC26, PC32, PC34, PC35, PC39
Exposure Scenario	03
Short title of exposure	Formulation of solutions covering all molar ratios (detergents,
scenario	adhesives, binders, surface technologies, other applications) - Industrial uses/ Formulation or re-packing
Sectors of use [SU]	SU02a, SU02b, SU04, SU05, SU06b, SU08, SU09, SU13, SU14, SU15, SU18, SU19, SU20
Environmental	ERC02, ERC03
contributing scenarios	
Health contributing	PROC01, PROC02, PROC03, PROC04, PROC05, PROC06,
scenarios	PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC14, PROC15, PROC16, PROC19, PROC21, PROC22, PROC23, PROC24, PROC26, PROC28
Additional Information	Product category [PC]: PC01, PC03, PC08, PC09a, PC14, PC15, PC19, PC20, PC23, PC24, PC26, PC32, PC34, PC35, PC38, PC39
Exposure Scenario	04
Short title of exposure scenario	Industrial use of powders covering all molar ratios (detergents, adhesives, binders, surface technologies, other applications) - Industrial uses/ Formulation or re-packing

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BIG-number: 68206

Annex to th	e extended Safety Data Sheet (eSDS)
	Silicic acid, sodium salt
Sectors of use [SU] Environmental	SU02a, SU02b, SU04, SU05, SU06b, SU08, SU11, SU12, SU13, SU14, SU15, SU16, SU17, SU18, SU19, SU20 ERC04, ERC05, ERC06b, ERC06c
contributing scenarios Health contributing	PROC01, PROC02, PROC03, PROC04, PROC05, PROC06,
scenarios	PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC14, PROC15, PROC17, PROC19, PROC21, PROC22, PROC23, PROC24, PROC25, PROC26, PROC28
Additional Information	Product category [PC]: PC01, PC03, PC08, PC09a, PC09b, PC14, PC15, PC18, PC20, PC24, PC25, PC26, PC32, PC34, PC35, PC37, PC38
Exposure Scenario	05
Short title of exposure scenario	Industrial use of solutions covering all molar ratios (detergents, adhesives, binders, surface technologies, other applications) - Industrial uses/ Formulation or re-packing
Sectors of use [SU]	SU02a, SU02b, SU04, SU05, SU06b, SU07, SU08, SU11, SU12, SU13, SU14, SU15, SU16, SU17, SU18, SU19, SU20
Environmental contributing scenarios	ERC04, ERC05, ERC06a, ERC06b, ERC06d, ERC07
Health contributing scenarios	PROC01, PROC02, PROC03, PROC04, PROC05, PROC06, PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC14, PROC15, PROC16, PROC17, PROC19, PROC21, PROC22, PROC23, PROC24, PROC25, PROC26, PROC28
Additional Information	Product category [PC]: PC01, PC03, PC08, PC09a, PC09b, PC14, PC15, PC18, PC19, PC20, PC23, PC25, PC26, PC32, PC33, PC34, PC35, PC37, PC38
Exposure Scenario	06
Short title of exposure scenario	Professional use of powders covering all molar ratios (adhesives, binders, surface technologies, other applications) - Professional uses/ Formulation or re-packing
Sectors of use [SU]	SU01, SU02a, SU02b, SU04, SU06b, SU07, SU13, SU14, SU15, SU19, SU20, SU23
Environmental contributing scenarios	ERC08a, ERC08b, ERC08c, ERC08d, ERC08e, ERC08f
Health contributing scenarios	PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC09, PROC10, PROC11, PROC13, PROC14, PROC15, PROC19, PROC21, PROC24, PROC25, PROC28
Additional Information	Product category [PC]: PC01, PC08, PC09a, PC09b, PC14, PC15, PC19, PC20, PC21, PC31, PC35, PC37, PC38, PC39
Exposure Scenario	07
Short title of exposure	Professional use of solutions covering all molar ratios
scenario	(detergents, adhesives, binders, surface technologies, other applications) - Professional uses/ Formulation or re-packing
Sectors of use [SU]	SU01, SU02a, SU02b, SU04, SU06b, SU07, SU13, SU14, SU15, SU18, SU19, SU20, SU23
Environmental	ERC08a, ERC08b, ERC08c, ERC08d, ERC08e, ERC08f,
contributing scenarios Health contributing	ERC09a, ERC09b PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a,
scenarios	PROC08b, PROC09, PROC10, PROC11, PROC13, PROC14, PROC15, PROC19, PROC21, PROC24, PROC25, PROC28



Annex to the	e extended Safety Data Sheet (eSDS)
	Silicic acid, sodium salt
Additional Information	Product category [PC]: PC01, PC08, PC09a, PC09b, PC14, PC15, PC19, PC20, PC21, PC26, PC31, PC35, PC37, PC38, PC39
Exposure Scenario Short title of exposure scenario Sectors of use [SU] Environmental contributing scenarios Health contributing scenarios	08 Consumer use of powders covering all molar ratios (detergents, adhesives, binders, surface technologies, other applications) - Consumer uses/ Formulation or re-packing SU02a, SU13, SU19 ERC08a, ERC08b, ERC08c, ERC08d, ERC08e, ERC08f, ERC09a, ERC09b Not applicable.
Additional Information	Product category [PC]: PC01, PC03, PC08, PC09a, PC09b, PC14, PC15, PC31, PC35, PC39
Exposure Scenario Short title of exposure scenario	09 Consumer use of solutions covering all molar ratios (detergents, adhesives, binders, surface technologies, other applications) - Consumer uses/ Formulation or re-packing
Sectors of use [SU] Environmental contributing scenarios Health contributing scenarios	SU02a, SU06b, SU13, SU18, SU19 ERC08a, ERC08b, ERC08c, ERC08d, ERC08e, ERC08f, ERC09a, ERC09b Not applicable.
Additional Information	Product category [PC]: PC01, PC03, PC08, PC09a, PC09b, PC14, PC15, PC26, PC31, PC35, PC37, PC39
Exposure Scenario Short title of exposure scenario Sectors of use [SU] Environmental contributing scenarios	10 Article life of powders with covering all molar ratios (adhesives, binders) - Consumer uses SU06b, SU13, SU14 ERC10a, ERC10b, ERC11a, ERC11b
Health contributing scenarios	Not applicable.
Additional Information Exposure Scenario	Article Categories [AC]: AC01, AC02, AC05, AC06, AC31 11
Short title of exposure scenario	Article life of solutions with covering all molar ratios (adhesives, binders, surface technologies, other applications) - Consumer uses/ Formulation or re-packing
Sectors of use [SU] Environmental contributing scenarios	SU06b, SU13, SU14, SU15, SU17, SU19 ERC10a, ERC10b, ERC11a, ERC11b
Health contributing scenarios	Not applicable.
Additional Information	Article Categories [AC]: AC01, AC02, AC05, AC06, AC31



## Annex to the extended Safety Data Sheet (eSDS) Silicic acid, sodium salt

SECTION 2: Exposure cor	ntrols
Contributing scenario co	ontrolling environmental exposure:
As no environmental haza	rd was identified, no environmental-related exposure assessment
and risk characterisation w	vas performed.
Contributing scenario co	ontrolling worker exposure:
Organisational measures t	to prevent/limit releases, dispersion and exposure: As sodium silicate is manufactured in various molar ratios as lumps, powders or aqueous solutions, classification depends on the molar ratio of SiO2 and Na2O. According to table E.3-1 in the "Guidance on information requirements and chemical safety assessment Part E: Risk Characterisation" (ECHA,
	2012), sodium silicate is allocated to the moderate hazard category for solutions and powders with MR <= 2.6 and for powders with molar ratio >2.6 - <=3.2. Solutions with MR >2.6 - <=3.2 were allocated to the low hazard category.
	<ul> <li>Moderate hazard category:</li> <li>Containment as appropriate.</li> <li>Minimise number of staff exposed.</li> <li>Segregation of the emitting process.</li> <li>Effective contaminant extraction.</li> <li>Good standard of general ventilation.</li> <li>Minimisation of manual phases.</li> </ul>
	<ul> <li>Avoidance of contact with contaminated tools and objects.</li> <li>Regular cleaning of equipment and work area.</li> <li>Management/supervision in place to check that the RMMs in place are being used correctly and OCs followed.</li> <li>Training for staff on good practice.</li> <li>Good standard of personal hygiene.</li> </ul>
	Low hazard category: - Minimisation of manual phases/work tasks. - Work procedures minimising splashes and spills. - Avoidance of contact with contaminated tools and objects. - Regular cleaning of equipment and work area. - Management/supervision in place to check that the RMMs in place are being used correctly and OCs followed. - Training for staff on good practice. - Good standard of personal hygiene.
Conditions and measures Personal Protection:	<ul> <li>related to personal protection, hygiene and health evaluation: Moderate hazard category:</li> <li>Substance/Task appropriate gloves. Wear suitable gloves tested to EN374.</li> <li>Skin coverage with appropriate barrier material based on potential for contact with the chemicals.</li> <li>Substance/task appropriate respiratory protection. Wear a respirator conforming to EN140 with type A/P2 filter or better.</li> <li>Optional face shield.</li> <li>Eye Protection/Chemical goggles.</li> </ul>



Annex to the extended Safety Data Sheet (eSDS) Silicic acid, sodium salt	
	Low hazard category: - Chemical goggles. - Wear suitable face shield. - Substance/Task appropriate gloves. - Full skin coverage with appropriate light-weight barrier material.
	Besides the product integrated risk mitigation measures, consumer instructions and the communication on the safe use should be implemented, including technical use instructions, instructions on use of protective clothing and behaviour, storage and disposal instructions.

### SECTION 3: Exposure estimation and reference to its source

Environment: All Contributing scenarios		
Exposure assessment	As no environmental hazard was identified, no environmental-	
(Environment):	related exposure assessment and risk characterisation was performed.	
Exposure estimation:	No environmental risk assessment was performed.	
Workers: All Contributing scenarios		
Exposure assessment	A quantitative risk assessment is not required for human	
(Human):	health. Risk management measures are based on qualitative risk characterisation.	
Exposure estimation:	Qualitative approach used to conclude safe use.	

# SECTION 4: Guidance to DU to evaluate whether he works inside the boundaries set by the ES

General	The immediate downstream user is required to evaluate
	whether the operational conditions and risk management
	measures described in the exposure scenario fit to his use.
	The implemented RMMs and OCs, including PPE will ensure
	that workers' exposure is reduced in a way that health hazard
	effects are avoided and that the risk of skin and eye irritation
	is considered to be adequately controlled. If other OC/RMM
	are adopted, the user has to ensure that risks are managed to
	at least equivalent levels.

RMM: Risk Management Measures OC: Operational Conditions

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