

MINERALCOMMERCE JSC
SAFETY DATA SHEET

In accordance with Commission Regulation (EU) 2020/878 amending Annex II to Regulation (EC) 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Date of issue: 26.01.2026

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1 Product Identifier	
Trade Name:	Sodium silicate- solution
Other names:	Silicic acid, Sodium salt
Chemical name:	Sodium silicate- solution
Index No. under Annex VI of the CLP Regulation	The product is not classified as dangerous 02-2120033615-62-0000
CAS №:	1344-09-8
EC №	215-687-4
REACH Registration No.:	01-2119448725-31-0100
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Relevant identified uses:	Preparation of acid resistant adhesive, cold glazes, heat and sound insulation materials to strengthen the soil, in the manufacture of detergents.
Uses advised against:	No additional information
1.3 Details of the supplier of the safety data sheet	
Supplier:	Name: "MINERALCOMMERCE "AD Address: 1, "Novozagorsko shose" Str. Tel.: +359 42 95 00 06 URL website: www.mineralcommerce.bg Email: mail@mineralcommerce.bg
Person, responsible for the production	Company Name: "MINERALCOMMERCE "AD Address: 1, "Novozagorsko shose" Str. Tel.: +359884353310 URL website: www.mineralcommerce.bg Email: sales@mineralcommerce.bg Silviya Gerdzhikova
1.4 Emergency telephone number:	
Emergency Telephone Number:	Emergency phone/fax: 112 in Bulgaria

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		Tel/fax +359 2 9154 233 E-mail: poison_centre@mail.orbitel.bg http: http://www.pirogov.bg Ministry of Environment and Water +359 2 9803317
2. HAZARDS IDENTIFICATION		
2.1 Classification of the substance or mixture		
Classification according to Regulation 1272/2008 (CLP)		
Hazard Statement Code(s)	H315 H319	Causes irritation skin Causes serious eye damage
2.2 Label elements		
Labelling according to EU Directive 1272/2008 (CLP)		
GHS05 GHS07		
Signal ward		Warning
Hazard Statement	H315 H319	Causes irritation skin Causes serious eye irritation
Prevention precautionary statements	P262 P280 P301+P330+P331 P303+P361+P353 P305+P351+P338	Avoid contact with eyes, skin or clothing. Wear protective gloves/protective clothing/safety glasses. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting IF ON SKIN (or hair): Take off immediately all contaminated clothing. Flush skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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2.3 Other hazards					
PBT/vPvB			Reacts with aluminum, zinc, tin and their alloys, evolving hydrogen gas, which can form an explosive mixture with air. In accordance with Annex XIII of Regulation (EC) No. 1907/2006, it is not classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).		
3. COMPOSITION/INFORMATION ON INGREDIENTS					
Substances					
This is a multi-component mixture according to Regulation (EC) 1907/2006					
Substance name	CAS no.	EC no.	Regulation 1272/2008 (CLP)	IUPAC	Concentration (Wt. %)
Sodium salt	1344-09-8	215-687-4	H315 H319	Sodium silicate	35-45%
Ingredients	7732-18-5	231-791-2		Water	65-55%
4. FIRST AID MEASURES					
4.1 Description of first aid measures					
In case of eye contact:		Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.			
In case of skin contact:		Wash affected skin with plenty of water. If symptoms develop, obtain medical attention.			
In case of ingestion:		Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain medical attention.			
In case of inhalation:		Remove patient from exposure, keep warm and at rest. Obtain medical attention.			
4.2 Most important symptoms and effects, both acute and delayed					
Irritation to eyes and skin. The toxicity of sodium silicate is dependent on the silica to alkali ratio and on the pH					

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4.3 Indication of any immediate medical attention and special treatment needed When the product contacts eyes or is ingested and in the presence of symptoms or irritation, seek medical attention. If swallowed, no specific antidote. Specific tools for first aid on site: None.	
5. FIRE FIGHTING MEASURES	
5.1 Extinguishing media	
Suitable extinguishing media:	Compatible with all standard fire fighting techniques.
Unsuitable extinguishing media:	No data available.
5.2 Special hazards arising from the substance or mixture	
Hazardous combustion products:	No data available.
5.3 Advice for fire-fighters	
Special protective equipment:	Not specified
Protective actions:	Not specified
6. ACCIDENTAL RELEASE MEASURES	
6.1 Personal precautions, protective equipment and emergency procedures Wear suitable protective clothing. Wear eye/face protection.	
6.2 Environmental precautions Do not allow to enter drains, sewers or watercourses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.	
6.3 Methods and material for containment and cleaning up Mechanical cleaning. The gathered wastes to be stored in special containers before their disposal.	
6.4 Reference to other sections See Sections 8 and 13	
7. HANDLING AND STORAGE	
7.1 Precautions for safe handling	
Engineering measures:	Observe instructions for working with autoclaves and

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	pressure vessels		
General hygiene measures:	Wearing of personal protective equipment is obligatory. Do not eat, drink, smoke during work. Contaminated clothing should be laundered before reuse.		
7.2 Conditions for safe storage, including any incompatibilities			
Technical measures and storage conditions	Water glass is stored in metal barrels or cisterns. Unsuitable material - aluminum, zinc; in plastic cans; Storage temperature 0-95°C. Do not allow the product to freeze. Shelf life: 36 months from the date of manufacture when stored in the original, tightly closed container under the recommended storage conditions.		
Requirements for storage facilities and means of transport	In closed storage rooms, without access to direct sunlight. Collections. Unsuitable material - aluminum, zinc See section 10		
7.3 Specific end use(s)			
Directions for use:	For professional use		
8. EXPOSURE CONTROLS/PERSONAL PROTECTION			
8.1 Control parameters			
Occupational exposure limit values	Based on industrial hygiene assessment, for tasks where short-term exposure greater than 2 mg/m3 cannot be excluded, workers should wear a portable breathing apparatus in addition to standard protective equipment (coveralls, goggles and gloves) .		
Currently recommended exposure limit values:	Route of exposure	Derived No Effect Levels (DNEL)	
		Personnel	General population
	Oral	No data available.	No data available.
	Dermal	No data available.	No data available.
	Inhalation	No data available.	No data available.
8.2 Exposure controls			
8.2.1 Appropriate engineering	Under manufacturing or processing conditions, to prevent		

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controls:	absorption of the substance as an aerosol spray, local exhaust ventilation should be used where possible. If the substance is produced or processed outside premises or tightly closed systems - provide individual means to protect the respiratory system, skin and eyes. Most consumer products contain the substance in amounts that do not cause risks. Skin or eye irritation may occur sporadically.
8.2.2 Individual protection measures, such as personal protective equipment:	
8.2.2.1 Respiratory protection:	In case of concentrations exceeding the limit concentration of the air in the working environment, use a protective mask.
8.2.2.2 Eye/face protection:	Use protective goggles
8.2.2.3 Skin protection:	Protective work clothes. When necessary use a rubber apron. Avoid penetration into the sewage
8.2.3 Environmental Exposure Controls	The substance does not cause significant risks to the environment, but due to the high alkaline reaction, neutralization is recommended before discharge into water and sewage.
9. PHYSICAL AND CHEMICAL PROPERTIES	
9.1 Information on basic physical and chemical properties	
Appearance:	Liquid. Almost colourless.
Odour:	Odourless
pH	Alkaline
Melting point/Freezing point:	Not applicable
Boiling point:	100
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not applicable
Upper/lower flammability or explosive limits:	Not applicable

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Vapour pressure:	Not applicable
Vapour density:	No data
Solubility (water):	At 20 degrees - soluble
Solubility (other):	No data
Partition coefficient n-octanol/water:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Oxidizing properties:	No data
Explosive properties:	No data
9.2 Other properties	
<i>Other physical and chemical parameters:</i> No data	
10. STABILITY AND REACTIVITY	
10.1 Reactivity	
Product is non-reactive under normal conditions of use, storage and transportation	
10.2 Chemical stability	
Stable	
10.3 Possibility of hazardous reactions	
Aqueous solutions will react with aluminium, Zinc, Tin, and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids.	
10.4 Conditions to avoid	
See Section: 10.3	
10.5 Incompatible materials	
See Section: 10.3	
10.6 Hazardous decomposition products	
None Known	

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11. TOXICOLOGICAL INFORMATION	
11.1 Information on toxicological effects	
Acute toxicity	
Ingestion	All symptoms of acute toxicity are due to high alkalinity. Material will cause irritation. Oral LD50(rat) 3400mg/Kg of body weight
Inhalation	Mist is an irritation to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity. Inhalation LC50 (rat) >2.06 g/m ³
Skin Contact	Material will cause irritation. Dermal LD50 (rat) >5000mg/Kg body weight
Eye Contact	Material will cause irritation
Mutagenicity	No evidence of genotoxicity. In vitro/in vivo negative
Carcinogenicity	No structural alerts
Reproductive toxicity:	No evidence of reproductive toxicity or developmental toxicity
STOT – single exposure:	Not classified
STOT – repeated exposure:	Not classified
12. ECOLOGICAL INFORMATION	
12.1 Toxicity	
Soluble silicates do not differ from natural forms of silicates that make up 59% of the earth's crust, they fall into waters as a result of natural geochemical processes. Soluble silicates entering waters as a result of production and processing have no anthropogenic significance.	
Algae:	No data
Daphnia:	Daphnia magna, EC50 (48 hours) 1700 mg/l
Fish /short term/long term:	Brachydanio rerio LC50 (96 hours) 1108 mg/l
12.2 Persistence and degradability	
Biodegradability:	Is not biodegradable
Hydrolysis, oxidation:	Resistant to oxidizing. High solubility in water

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12.3 Bioaccumulative potential	
The results of toxicokinetic studies for bioaccumulation in vertebrates indicate a low potential.	
Bioconcentration factor (BCF):	Not applicable
Octanol-water partition coefficient (K _{ow})	Not applicable
12.4 Mobility in soil	
Adsorption coefficient:	Not applicable
12.5 Results of PBT and vPvB assessment	
Not persistent, bioaccumulative or toxic (PBT) according to the criteria set out in Annex XIII of Regulation (EC) 1907/2006 – REACH.	
12.6 Other adverse effects	
Keep from disposal into the canals and other water bodies	
13. DISPOSAL CONSIDERATIONS	
13.1 Waste treatment methods	Under national law
13.1.1 Product/packaging waste	The placing of codes/names on waste - should be carried out in accordance with the waste classification regulation, according to the specifics of the given production or process.
Waste treatment according to the national and local regulations:	Spilled product should be collected in a container. The remainder should be covered with inert material and disposed from the places designated by the competent authorities or in special containers.
Product/packaging waste	Placing codes/names on the waste - to be carried out in accordance with the waste classification ordinance, according to the specifics of the given production or process.
14. TRANSPORT INFORMATION	
The finished product is not considered hazardous under the Transport Regulations.	
14.1. UN number	Not classified as hazardous under DOT. International

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	Maritime Dangerous Goods (IMDG) Code: Not classified as hazardous
14.2. UN proper shipping name	Not applicable
14.3. Transport hazard class(es)	Not applicable
14.4. Packing group	Not applicable
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	Unsuitable containers: Aluminium
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable
15. REGULATORY INFORMATION	

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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	Regulation 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Regulation 1272/2008 of the European Parliament and of the Council of 16 December 2008 on the classification and packaging of substances and mixtures. Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Local legislation: Environmental Protection law; Waste Management Act; Law on Protection from the Harmful Effects of Chemical Substances and Mixtures; Ordinance on the order and method of storage of dangerous chemical substances and mixtures; Ordinance 2 on waste classification; Ordinance on the requirements for the treatment and transportation of production and hazardous waste; Ordinance 7 on the minimum requirements for health and safety working conditions at workplaces and when using work equipment;
15.2 Safety assessment of a chemical substance or mixture	A chemical safety report has been prepared for substances. The report is part of the registration documentation submitted to ECHA. The report covers the manufacturing process of the substance and its identified uses.
16. OTHER INFORMATION	
Training advice: to provide adequate information, instruction and training. The information in the material data safety sheet corresponds to the contemporary level of knowledge at the date of issue of the document. The use of the information and the conditions of use are beyond the control of the manufacturer, the user bears the responsibility for applying the safety recommendations.	

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Annex to the safety data sheet.

Sodium Silicate - solution (Sodium Silicate; Silicic acid sodium salt)
 ES6 Use in industrial facilities. Different products.

Identified uses	Sector of End Use (SU)	Product Category (PC)	Process Category (PROC)	Environmental Release Category (ERC)
Solution with modulus <1.6 - >2.6, >3.2. Production and use in detergents. Detergents for washing dishes, for dishwashers, industrial cleaners, means for cleaning and disinfecting hard surfaces.	4,14,20	8,14,15,35	1,2,3,4,5,7,9,10,13,14,8a,8b	2,4,6b,8a,8d
For industrial use. Solution with modulus >1.6-2.6, >2.6, >3.2. as a bonding agent in cardboard and paper production.	6b	1	2,3,4,7,10,8a	5,8c,3
For industrial use. Solution with modulus <1.6 - >2.6, >3.2 as a bonding agent in briquetting and agglomeration processes.	19	1	5,7,10,14,16,8a,8b	5,3
For industrial use. Solution with modulus >1.6-2.6, >2.6, >3.2 as a bonding agent in tile production.	19	1	4,5,8a	5,3
For industrial use. Solution with modulus >1.6-2.6, >2.6, >3.2 as a bonding agent for the production of bricks, tiles and other construction materials.	19	1	4,5,8a	5,3
For industrial use. Solution with modulus >1.6-2.6, >2.6, >3.2 as a bonding agent for cement production, etc. refractory mixtures.	13	1	12,3,4,5,8a	5,3

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For industrial use. Solution with modulus >1.6-2.6, >2.6, >3.2 as a bonding agent for the production of plasters and mortar.	13	1	12,3,4,5,8a	5,3
For industrial use. Solution with modulus >1.6-2.6, >2.6, >3.2 as a bonding agent for the production of casting molds and hearts.	15	1	14,23,8b	5,3
For industrial use. Solution with a modulus >1.6-2.6, >2.6, >3.2 as a bonding agent for the production of wooden structures.	19	1	4,7,10	5
For industrial use. Solution with modulus >1.6-2.6, >2.6, >3.2 as a bonding agent for the production of welding rods.	0	38	2,4,5,13	5,3
For industrial use. Solution with modulus >1.6-2.6, >2.6, >3.2 as a bonding agent in the use of welding rods.	15,17,19	25	38	10b,11b
For industrial use as a bonding agent for the production of wood panels.	18,19	1	7,10, 8a,8b	5,3
For industrial use. Solution with modulus >1.6-2.6, >2.6, >3.2. As an adhesive and binder in the production of fibers in glass and mineral wool insulation materials.	19	1	4,5,7,10,8a	5,3
For industrial use. Solution with modulus >1.6-2.6, >2.6, >3.2. As adhesives and binders in the production of building boards and prefabricated parts based on inorganic materials	13,18	1	2,3,4,5,7,10, 8a	5,3
For industrial use. Solution with modulus >1.6-2.6, >2.6, >3.2. As adhesives and binders in the	13,18,19	1	2,3,4,5,7,10, 8a	5,3

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production of building boards and prefabricated parts based on organic materials				
For industrial use. Solution with modulus >1.6-2.6, >2.6, >3.2. As adhesives and binders in the production of plastic insulation materials	19	1	4,7,10	3,5
For industrial use. Modulus solutions >3.2 as surface coatings: TiO ₂ production		0	5, 8b	2, 6b
For industrial use. Use of solution with modulus >2.6, >3.2 as surface coatings: concrete	10,13		5,7, 8a,9,10,13	8c,8f,10a,11a
For industrial use. Using solutions with molar ratios > 1.6-2.6, > 2.6, > 3.2 as surface coatings: paints for masonry and glass surfaces; coatings in construction	10,19	9a	5,7,10,8a	8c,8f,10a,11a
For industrial use. Using solutions with molar ratios > 1.6-2.6, > 2.6, > 3.2 as surface coatings: refractory glasses and surface coatings		9a	2,4, 8a,10	3,5
Industrial applications. Using solutions with molar ratios > 1.6-2.6, > 2.6, > 3.2 as surface coatings: fire retardant coatings building materials	10	1,9a	4,7,10,13	8c,8f,5
Industrial applications. Using solutions with modulus <1.6,> 1.6-2.6,> 2.6,> 3.2 as surface coatings: Spray-coating in tunnel construction and mining.	2a,13,19	0	8a,7	8c,8f,5

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Industrial applications. Using solutions with molar ratios > 3.2 in papermaking: Coating	6b	26	5,7,9,10	5,8c
Industrial applications. Using solutions with module > 1.6-2.6, > 2.6, > 3.2 in pulp and paper production: Deinking and bleaching (recycled waste paper)	6b	20	2,5,8b	6d
Industrial applications. Using solutions with modulus > 1.6-2.6 in leather tanning	5	23	5,13	5,6b,3,4
Industrial applications. Using a solution with module > 1.6-2.6, > 3.2 in water treatment: Corrosion protection (Sewer pipes, water cooling systems, drinking water) ☑	19	37	2,8a, 8b,9	5,7
Industrial applications. Using a solution with module > 1.6-2.6 in the oil refining industry.	2a,2b	0	3.8a	4
Industrial applications. Using a solution with modulus > 1.6-2.6 in the oil refining industry: anti-caking agent	2a,2b	0	3.8a	4
Industrial applications. Using a solution with module <1.6, > 1.6-2.6, > 3.2 in the processing of textiles and textile fibers: Bleaching agent and dye stabilizer	5	34	2,8a,13	5, 6b,3,4

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Industrial applications. Use of solution with modulus > 1.6-2.6, > 2.6, > 3.2 in textile and textile fiber processing: flame retardant	5	34	2,8a,9,13	5, 6b,3,4
Industrial applications. Using a solution with module <1.6,> 1.6-2.6 in ceramics and minerals: a component of porcelain and ceramic masses	13	0	4,5,8b	5,2
Industrial applications. Using a solution with modulus <1.6, > 1.6-2.6 in ceramics and minerals: flotation agent mineral processing	10,13	20	5,7,8a,9,10,13	4
Industrial applications. Using a solution with module <1.6,> 1.6-2.6 in ceramics and minerals: deflocculant in cement and clay suspensions	13	20	5	2
Industrial applications. Using a solution with modulus > 3.2 in semiconductor materials.	16	33	9, 8b	4, 6b
Industrial applications. Using a solution with module > 1.6-2.6,> 3.2 in lithography: Processing of lithographic plates	7	0	5	6b
Industrial applications. Using a solution with module > 3.2 in wood products: impregnation	18,19	0	8a,9,13	5,8c,8f
Industrial applications. Use of solution with modulus > 1.6-2.6 in cosmetics production: hair care	10,0	39	3,5,8a,9	2

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(bleaching and dyeing formulations)				
Use of mortars with modulus > 1.6- 2.6, > 2.6, > 3.2 in construction: compaction and stabilization of soil during drilling, tunneling and mining, sealing of landfills, construction pits, buildings, stabilization of the shoreline	2a,19	1,0	4,5,8a,9	8f,5
Use of solutions with module <1.6 - > 2.6, > 3.2: production of washing detergents, detergents, detergents for dishwashers, industrial cleaning agents; cleaning and disinfecting agents		35	10,11,13	4,8a,8b
Exposure control for workers				
No exposure limit set. An exposure limit of 2 mg/m ³ is recommended				
Professional use. Using a solution with module > 1.6-2.6, > 3.2 in water treatment: corrosion protection (sewage pipes, water cooling systems and drinking water)		37	2, 8b,9	4,5,8c,9a,9b, 10a,11a
Professional use. Use of solution with modulus > 1.6-2.6 in cosmetics: hair care (bleaching and dyeing ingredient)		39	19	8b,8c
Professional use. Using solutions with modulus > 1.6-2.6 in other applications: component in paint removers.		9a	10,19	8b,8e
Use by users				
Use of detergents (solution with module <1.6 - > 2.6, > 3.2:		35		8a,8b,8d,8e

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detergents, detergents for washing machines, industrial cleaning and disinfecting agents.				
Use of solutions with modulus > 1.6-2.6, > 2.6, > 3.2 as adhesives and binders in plasters and mortar.		9b,		8f,8c,10a,11a
Use of solutions with modulus > 1.6-2.6, > 2.6, > 3.2 as surface coatings: paints for masonry and glass surfaces, coatings in construction.		9a		8a,8c,8f,8d
Use of solutions with modulus > 1.6-2.6 in cosmetics: hair care (bleaching and coloring formulations)		39		8b,8c
Use of solutions with modulus > 1.6-2.6 - in paint removers		9a		8b,8e

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 scenario	Manufacturing of soluble silicates
Sectors of use [SU]	-
Environmental contributing scenarios	ERC01
Health contributing scenarios	PROC01, PROC02, PROC03, PROC04, PROC05, PROC06, 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,

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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, SU18, SU19, SU20
Environmental contributing scenarios	ERC02, ERC03
Health contributing scenarios	PROC01, PROC02, PROC03, PROC04, PROC05, PROC07, 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 scenario	Formulation 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, SU08, SU09, SU13, SU14, SU15, SU18, SU19, SU20
Environmental contributing scenarios	ERC02, ERC03
Health contributing scenarios	PROC01, PROC02, PROC03, PROC04, PROC05, PROC06, 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
Sectors of use [SU]	SU02a, SU02b, SU04, SU05, SU06b, SU08, SU11, SU12, SU13, SU14, SU15, SU16, SU17, SU18, SU19, SU20
Environmental contributing scenarios	ERC04, ERC05, ERC06b, ERC06c
Health contributing scenarios	PROC01, PROC02, PROC03, PROC04, PROC05, PROC06, 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,

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	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 scenario	Professional use of solutions covering all molar ratios (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 contributing scenarios	ERC08a, ERC08b, ERC08c, ERC08d, ERC08e, ERC08f, ERC09a, ERC09b
Health contributing	PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a,

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scenarios	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, PC26, PC31, PC35, PC37, PC38, PC39

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

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Sectors of use [SU]	Formulation or re-packing SU06b, SU13, SU14, SU15, SU17, SU19
Environmental contributing scenarios	ERC10a, ERC10b, ERC11a, ERC11b
Health contributing scenarios	Not applicable.
Additional Information	Article Categories [AC]: AC01, AC02, AC05, AC06, AC31

SECTION 2: Exposure controls

Contributing scenario controlling environmental exposure:

As no environmental hazard was identified, no environmental-related exposure assessment and risk characterisation was performed.

Contributing scenario controlling worker exposure:

Organisational measures 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.

Moderate hazard category:

- Containment as appropriate.
- Minimise number of staff exposed.
- Segregation of the emitting process.
- Effective contaminant extraction.
- Good standard of general ventilation.
- Minimisation of manual phases.
- 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.

Low hazard category:

- Minimisation of manual phases/work tasks.



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	- 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 related to personal protection, hygiene and health evaluation:	
Personal Protection:	Moderate hazard category: - Substance/Task appropriate gloves. Wear suitable gloves tested to EN374. - Skin coverage with appropriate barrier material based on potential for contact with the chemicals. - Substance/task appropriate respiratory protection. Wear a respirator conforming to EN140 with type A/P2 filter or better. - Optional face shield. - Eye Protection/Chemical goggles. 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 (Environment):	As no environmental hazard was identified, no environmental-related exposure assessment and risk characterisation was performed.
Exposure estimation:	No environmental risk assessment was performed.
Workers: All Contributing scenarios	

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Exposure assessment (Human):	A quantitative risk assessment is not required for 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.
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RMM: Risk Management Measures

OC: Operational Conditions