

SAFETY DATA SHEET

CONPROTECT WP1

(liquid)

Integral waterproofing crystallizing admixture

Date prepared: 08.12.2020

Revision date:

Version: 2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name ConProtect WP1

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses *Admixture to improve water resistance during crystallization*

Uses advised against *Use only in accordance with product specifications*

Details of the Supplier of the Safety Data Sheet

Name of the manufacturer *SL Protection OÜ*

Address *Vana-Narva mnt 30, Maardu, 74114 Harju maakond, Estonia*

E-mail *info@slprotection.eu*

Phone/fax *+372 55666174*

Emergency telephone number *Estonian National Poisons Information Centre: 16662 (+372 794 3794 from abroad) /
Emergency telephone number: 112*

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Definition of product *Mixture*

Classification according to Regulation (EC) No 1272/2008 of the European Parliament and of the Council

Skin Irrit. 2, H315

Eye Dam. 1, H318

See Sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

Label elements



Signal word	<i>Caution</i>
Hazard statements	<i>H315 Causes skin irritation.</i> <i>H318 Causes serious eye damage.</i>
Precautionary statements	<i>P262 Do not get in eyes, on skin, or on clothing.</i> <i>P280 Wear protective gloves/protective clothing/eye protection.</i> <i>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</i> <i>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</i>
Supplemental label elements	<i>N/A</i>
Special packaging requirements	
Child-resistant safety cap	<i>N/A</i>
Embossed warning sign	<i>N/A</i>
Other hazards	<i>No other non-classified hazards.</i>

 3. COMPOSITION/INFORMATION ON INGREDIENTS

Inorganic alkali dissolved in a liquid.

Substance name:	<i>Sodium silicate</i>
CAS number:	<i>1344-09-8</i>
EC number:	<i>215-687-4</i>
REACH Registration No.:	<i>01-2119448725-31-0012</i>
Concentration of the ingredient:	<i><60%</i>

Classification of the ingredient according to Regulation (EC) No 1272/2008 of the European Parliament and of the Council:

Skin Irrit. 2, H315;
Eye Dam. 1, H318;

 4. FIRST AID MEASURES

Description of first aid measures

Eye contact *Rinse eyes immediately with eyewash solution or water (for 10 minutes).*

	<i>CONSULT AN OPHTHALMOLOGIST.</i>
Skin contact	<i>Wash the skin thoroughly with water and soap. Apply protective cream. Take off contaminated clothes. If the symptoms persist, call a doctor.</i>
Ingestion	<i>Rinse mouth and throat. Drink 1-2 glasses of water. Do not induce vomiting. GET IMMEDIATE MEDICAL ADVICE/ATTENTION.</i>
Inhalation	<i>Remove the victim to fresh air. If necessary, consult a physician.</i>

Most important symptoms and effects, both acute and delayed

Causes skin irritation.

Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed

Quick removal of material is crucial.

Take off contaminated clothes immediately.

Note to physician *Treatment should generally be symptomatic and aimed at alleviating the effects.*

See Section 11 for more detailed information on health effects and symptoms. Indication of any immediate medical attention and special treatment needed

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media *Not relevant. Inorganic material. Non-combustible material, therefore, extinguishing media must be selected according to the surrounding environment.*

Unsuitable extinguishing media *None*

Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture *Minor fire hazard. The product is non-flammable.*

Hazardous combustion products *None*

Advice for firefighters

Special precautions for firefighters *None*

Special protective equipment for firefighters *None*

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

The leaked product is slippery.

For non-emergency personnel	<i>Wet material makes the ground slippery.</i>
For emergency responders	<i>Wear relevant personal protective equipment.</i>
Environmental precautions	<i>Keep away from drains, surface and ground water. When containing with sand or other material, prevent the product from spreading into the environment. Inform respective authorities in case of leakage into water body or sewerage, or if the product has contaminated the ground.</i>
Methods and material for containment and cleaning up	
Small/extensive leakage	<i>Collect with liquid absorbing material, e.g. sand. Remove residues by rinsing the area with plenty of (warm) water. Liquid material can be removed with a vacuum cleaner.</i>
Reference to other sections	<i>See Section 1 for emergency telephone numbers.</i> <i>See Section 5 for firefighting measures.</i> <i>See Section 8 for appropriate personal protective equipment.</i> <i>See Section 12 for ecological information.</i> <i>See Section 13 for further information on waste disposal.</i>

7. HANDLING AND STORAGE

Precautions for safe handling

Protective measures	<i>Avoid contact with eyes, skin or clothing.</i> <i>Wear protective equipment, see also section 8.</i> <i>Eye wash stations should be readily accessible.</i>
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Conditions for safe storage, including any incompatibilities

	<i>Keep packaging / storage container closed.</i> <i>Protect from freezing.</i> <i>Keep away from acids.</i>
Compatible materials	<i>(Stainless) steel.</i>
Incompatible materials	<i>Zinc, tin, aluminium, copper and alloys thereof.</i>
Storage class	<i>12 (non-flammable liquid).</i> <i>See also section 10.</i>

Observe all applicable local regulations during storage and handling.

Specific end use(s)

Not known.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Occupational exposure limits	<i>Regulation of the Government of the Republic of Estonia No. 105 (EE)</i>
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Exposure limit value: None

Derived No-Effect Level for workers:

Exposure	Route of exposure	Description	DNEL	The most sensitive endpoint
Long term - systemic effects	Dermal (mg/kg bw / day)	DNEL	1.59	Repeated dose toxicity
Long term - systemic effects	Inhalation (mg/m ³)	DNEL	5.61	Repeated dose toxicity

Derived No-Effect Level for consumers:

Exposure	Route of exposure	Description	DNEL	The most sensitive endpoint
Long term - systemic effects	Dermal route (mg/kg bw/day)	DNEL	0.8	Repeated dose toxicity
Long term - systemic effects	Inhalation (mg/m ³)	DNEL	1.38	Repeated dose toxicity
Long term - systemic effects	Ingestion (mg/kg bw/day)	DNEL	0.8	Repeated dose toxicity

Predicted No-Effect Concentration (PNEC)	mg/l
Freshwater	7.5
Sea water	1
Brackish water	7.5
Waste water treatment plant	348

Exposure controls

Appropriate engineering controls *Use adequate ventilation.*

Individual protection measures, such as personal protective equipment

Respiratory protection *Usually, general room ventilation is sufficient. Avoid inhalation of splashes.*

Eye and face protection *Wear suitable tight fitting protective goggles with side shields.*

Skin protection *Avoid contact with skin. Wear trousers and a long-sleeved shirt. Wear chemically resistant rubber or plastic gloves.*

Environmental exposure controls *No special requirements*

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance: *viscous fluid, colourless to translucent liquid*

Odour: *odourless*

Odour threshold:	<i>N/A</i>
pH:	<i>1 % solution in the range of 12-14</i>
Melting point / freezing point:	<i>in the range of 0-12 °C</i>
Initial boiling point and boiling range:	<i>±100 °C</i>
Flash point:	<i>N/A</i>
Evaporation rate:	<i>N/A</i>
Flammability (solid, gas):	<i>N/A</i>
Upper/lower flammability or explosive limits:	<i>N/A</i>
Vapour pressure:	<i>similar to water</i>
Vapour density:	<i>N/A</i>
Relative density:	<i>1,20–1,60 kg/l</i>
Solubility(ies):	<i>water-soluble</i>
Solubility(ies) (other):	<i>N/A</i>
Partition coefficient: n-octanol/ water:	<i>N/A</i>
Auto-ignition temperature:	<i>N/A</i>
Decomposition temperature:	<i>N/A</i>
Viscosity:	<i>10-100,000 mPa·s</i>
Explosive properties:	<i>N/A</i>
Oxidising properties:	<i>N/A</i>

Other information
N/A

10. STABILITY AND REACTIVITY

Reactivity	<i>Aqueous solutions react with aluminium, zinc, tin, copper and alloys thereof, releasing hydrogen gas, which may form an explosive mixture with air.</i>
Chemical stability	<i>Stable under the recommended storage and handling conditions.</i>
Possibility of hazardous reactions	<i>Aqueous solutions react with aluminium, zinc, tin, copper and alloys thereof, releasing hydrogen gas, which may form an explosive mixture with air. Contact with acids gives exothermic reaction.</i>
Conditions to avoid	<i>Avoid contact with concentrated acids.</i>
Incompatible materials	<i>Avoid contact with aluminium, zinc, tin, copper and alloys thereof.</i>
Hazardous decomposition products	<i>None</i>

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

The hazards of sodium silicate for all routes of exposure are due to its alkalinity.

- **Ingestion:** *Oral LD50 (rat): 3400 mg/kg bw.*
- **Inhalation:** *After inhalation irritation of respiratory tract may be expected. LC50 (rat) > 2.06 g/m³*
- **Skin contact:** *Irritant Dermal LD50 (rat) > 5000 mg/kg bw.*
- **Eye contact:** *Causes serious eye damage, unless immediately treated.*

Skin corrosion / irritation	<i>Causes skin irritation.</i>
Serious eye damage/irritation	<i>Causes serious eye damage</i>
Respiratory or skin sensitisation	<i>Not sensitising.</i>
Germ cell mutagenicity	<i>There is no evidence of genotoxicity. Negative in vitro and in vivo.</i>
Carcinogenicity	<i>There are no structural disorders.</i>
Reproductive toxicity	<i>Fertility effects: NOAEL (rat) > 159 mg/kg bw/day.</i> <i>Developmental toxicity: NOAEL (mouse) > 200 mg/kg bw/day.</i>
Specific target organ toxicity (STOT) - single exposure	<i>N/A</i>
Specific target organ toxicity (STOT) - repeated exposure	<i>N/A</i>
Aspiration hazard	<i>Not classified.</i>

12. ECOLOGICAL INFORMATION

Ecotoxicity

- *Acute toxicity to fish (Brachydanio rerio): LC50 (96 hours): 1108 mg/l.*
- *Acute toxicity to invertebrates (Daphnia magna): EC50 (48 hours): 1700 mg/l.*
- *Algae/cyanobacteria (Scenedesmus subspicatus): EC50 (72 h, biomass): 207 mg/l, EC50 (72 h, growth rate): > 345.4 mg/l.*

Persistence and degradability

Inorganic. Soluble silicates, upon dissolution depolymerize rapidly into molecular particles that are indistinguishable from naturally dissolved silica. Combine with ions such as Ca, Mg, Fe, Al and others to form insoluble compounds similar to those found in natural soils as ingredients.

Bioaccumulation

Inorganic. This product is considered to be non-bioaccumulative.

Results of PBT and vPvB assessment

N/A

Other adverse effects *The alkalinity of the material has a local effect on ecosystems sensitive to pH changes.*

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods *Dispose of in accordance with national or local regulations. It is recommended to neutralize the material before disposal.*

Dispose of contaminated packaging in accordance with national or local regulations. It is recommended to clean the packaging with water before disposal.

EWC code: 06 02 99.

14. TRANSPORT INFORMATION

IMDG: N/A UN No.: N/A ICAO/IATA: N/A Tremcard No.: N/A

GGVE/GGVS: N/A RID/ADR: N/A AD No.: N/A D.O.T.: N/A

Other information There are no known restrictions. There are no legal requirements for the transport of this product.

15. REGULATORY INFORMATION

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Estonian Chemicals Act (RT I 1998, 47, 697).

Regulation no. 105 of 17 January 2020 of the Government of the Republic of Estonia "Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnormid" (Occupational health and safety requirements for the use of hazardous chemicals and materials containing them and limit values for chemical hazards in the work environment).

Regulation No. 106 of 6 December 2000 of the Minister of Transport and Communications of Republic of Estonia „Nõuded kemikaali hoiukohale, peale-, maha- ja ümberlaadimiskohale ning teistele kemikaali käitlemiseks vajalikele ehitistele sadamas, autoterminalis, raudteejaamas ja lennujaamas ning erinõuded ammoniumnitraadi käitlemisele” (Requirements for Storage Facilities for and Places of Loading, Unloading and Transhipment of Chemicals, and for Other Structures Necessary for Handling of Chemicals in Ports, Road Transport Terminals, Railway Stations and Airports and special requirements for ammonium nitrate handling)

Waste Act (RT I 2004, 9, 52).

Regulation No. 102 of 6 April 2004 of Government of the Republic of Estonia „Jäätmete, sealhulgas ohtlike jäätmete nimistu“ (List of waste, including hazardous waste).

Regulation No. 118 of 14 December 2001 of the Minister of Transport and Communications of the Republic of Estonia „Ohtlike veoste autoveo eeskiri“ (Rules for the transport of dangerous goods by road).

Regulation (EC) No 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of Very High Concern (SVHC)

No ingredients are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

N/A

Other legislation

US legislation: not regulated

Right to Know Hazardous Substance List (RTKHSL): not regulated

Special Health Hazard Substance List (SHHSL): not regulated

This product is not on any controlled list.

Chemical safety assessment N/A

16. OTHER INFORMATION

Indication of changes: *Alignment of the safety data sheet with Commission Regulation (EU) No 453/2010; Section 1 - supplier; Section 2 - classification and labelling of the mixture in accordance with Regulation (EC) No 1272/2008; Section 3 - information on the ingredients and classification according to Regulation (EC) No 1272/2008; Section 11 - toxicological information; Section 15 - regulatory information.*

Other information: *This safety data sheet summarizes the best knowledge we have at the time of issuing this safety data sheet about the health and safety risks of the product, and in particular about the safe handling and use of the product in the workplace. As SL Protection OÜ cannot foresee or control the conditions under which the product is used, each user must use the safety data sheet before using the product to find out how the product must be handled and used at the workplace.*
If the user needs clarification or additional information about the product, he should contact our company. Our responsibility for the product being sold is set out in standard terms, a copy of which has been sent to our customers and is also available on request.

Full text of hazard categories and statements:

Skin Irrit. 2, H315 – Skin irritation, Category 2, H315 Causes serious skin irritation.

Eye Dam. 1, H318; Serious eye damage Category 1, H318 Causes serious eye damage.



Contact person / Technical Support Contact:

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History

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Limitation of liability

Please contact SL Protection OÜ for general safety and handling information. This information is based on our experience and best knowledge. No recommendation or advice has any guarantee. We are not responsible for the completeness or complete accuracy of this information.