

SAFETY DATA SHEET

Betsilan

(liquid)

Waterproofing silicone/siloxane emulsion for masonry

Date prepared: 2024

Revision date:

Version: 1

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

Product identifier

Product name *Betsilan***Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses *Admixture to improve water resistance*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 mixtureDefinition of product *Mixture***Classification according to Regulation (EC) No 1272/2008 of the European Parliament and of the Council***Skin Irrit. 3, H315**Eye Dam. 1, H319**Skin Sens. 1, H317**See Sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.*

Label element



Signal word

Caution

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye damage.

H317 May cause an allergic reaction

H 412 Harmful to aquatic life

Precautionary statements

P264 Wash thoroughly after handling

P273 Avoid release to the environment

P302+ P352 IF ON SKIN (or hair): Wash with plenty of water/shower.

P308 + P313 IF exposed or concerned: get medical advice/attention

Supplemental label elements

N/A

Special packaging requirements

N/A

Child-resistant safety cap

N/A

Embossed warning sign

N/A

Other hazards

Hazardous to aquatic organisms

3. COMPOSITION/INFORMATION ON INGREDIENTS

Inorganic alkali dissolved in a liquid.

Substance name:

Triethoxy-octylsilane

CAS number:

2943-75-1

EC number:

220-941-2

REACH Registration No.:

01-2119972313-39

Concentration of the ingredient:

< 60%

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. 2, H319
Skin Sens. 1A, H317*

4. FIRST AID MEASURES

Description of first aid measures

Eye contact	<i>Rinse eyes immediately with eyewash solution or water (for 10 minutes). 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, itching, and rashes. A burning sensation may occur. Causes redness of the eyes and may cause 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 be symptomatic and aimed at alleviating the effect. 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	<i>Dry chemicals, alcohol- resistant foam and CO₂ spray water</i>
Unsuitable extinguishing media	<i>A water jet with a large flow</i>

Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture *Contact with skin may cause skin irritation, contains a sensitizer*

Hazardous combustion products	<i>Nitrogen oxides, carbon oxides, and carbon dioxide.</i>
Advice for firefighters	
Special precautions for firefighters	<i>Ensure that the water used for extinguishing the fire does not enter the draining system, soil or water body.</i>
Special protective equipment for firefighters	<i>Personal protective equipment, respiratory apparatus</i>

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

	<i>Avoid contact with skin and eyes. Ensure good ventilation.</i>
For non-emergency personnel	<i>Personal protective equipment.</i>
For emergency responders	<i>Wear relevant personal protective equipment.</i>

Environmental precautions	<i>Avoid release into sewage systems, surface water, and groundwater. When containing the spill, use sand or other materials to prevent product dispersion into the environment. In the event of a large spill into water bodies or sewage, or if the spilled product has contaminated the soil, notify the relevant authorities</i>
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Methods and material for containment and cleaning up

Small/extensive leakage	<i>Collect with liquid absorbing material, e.g. sand, sawdust. Remove residues by rinsing the area with plenty of (warm) water. Liquid material can be removed with a vacuum cleaner.</i>
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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 and clothing.</i>
	<i>Ensure good ventilation.</i>

Wear protective equipment, see also section 8.

Do not smoke, eat, or drink while handling.

Conditions for safe storage, including any incompatibilities

Keep packaging / storage container closed in a well- ventilated area.

Protect from freezing.

Keep away from strong acids.

Compatible materials *(Stainless) Steel.*

Incompatible materials *Zinc, tin, aluminum, copper, and their alloys*

Storage class *12 (non-flammable liquid).*

See also section 10.

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 *Regulation of the Government of the Republic of Estonia No. 105 (EE)*

Exposure limit value: *None*

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 *If the spilled product has contaminated the soil, notify the relevant authorities.*

 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	<i>Viscous liquid, milky white</i>
Odour:	<i>Odourless</i>
Odour threshold:	<i>N/A</i>
pH:	<i>1% solution in the range of 5-7</i>
Melting point / freezing point:	<i>Between 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>N/A</i>
Vapour density:	<i>N/A</i>
Relative density:	<i>0,931 g/m³</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>Not expected</i>
Decomposition temperature:	<i>N/A</i>
Viscosity:	<i>300 mPa.s</i>
Explosive properties:	<i>N/A</i>
Oxidising properties:	<i>N/A</i>
Other information:	<i>N/A</i>

 10. STABILITY AND REACTIVITY

Reactivity	<i>No dangerous reaction known conditions of normal use.</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 strong acids or Lewis bases gives exothermic reaction.</i>
Conditions to avoid	<i>Avoid contact with strong acids and superbases. Protect from heat, sunlight and frost.</i>

Incompatible materials	<i>Avoid contact with aluminium, zinc, tin, copper and alloys thereof.</i>
Hazardous decomposition products	<i>N/A</i>

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

- **Ingestion:** *Oral LD50 (rat): > 5110mg/kg body weight.*
- **Inhalation:** *Inhalation may be expected to cause respiratory irritation. LC50 (rat) > 22 ppm.*
- **Skin contact:** *Irritating. Dermal LD50 (rat) > 6730 mg/kg body weight.*
- **Eye contact:** *Causes serious eye damage unless treated immediately.*

Skin corrosion / irritation *Causes skin irritation*

Serious eye damage/irritation *Causes serious eye irritation.*

Respiratory or skin sensitisation *Not sensitising.*

Germ cell mutagenicity *There is no evidence of genotoxicity.
Negative in vitro and in vivo.*

Carcinogenicity *There are no structural disorders.*

Reproductive toxicity *Effects on fertility: NOAEL (rat) > 159 mg/kg body weight/day.
Developmental toxicity: NOAEL (mouse) > 200 mg/kg body weight/day.*

Specific target organ toxicity (STOT) - single exposure *N/A*

Specific target organ toxicity (STOT) - repeated exposure *N/A*

Aspiration hazard *Not classified.*

12. ECOLOGICAL INFORMATION

Ecotoxicity

- *Acute toxicity to fish (Brachydanio rerio): LC50 (96 hours): 0,055 mg/l.*
- *Acute toxicity to invertebrates (Daphnia magna): EC50 (48 hours): 0,049 mg/l.*
- *Algae/cyanobacteria (Scenedesmus subspicatus): EC50 (72 h, growth rate): > 100 mg/l.*

Persistence and degradability *N/A*

Bioaccumulation

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

Results of PBT and vPvB assessment

N/A

Other adverse effects

The material's alkalinity has a local impact on pH changes in sensitive ecosystems.

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 tervishoiu 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 ammooniumnitraadi 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.

Complete texts of hazard categories and phrases:

Skin Irrit. 2, H315 - Skin Irritation Category 2, H315 Causes skin irritation.

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

Skin Sens. 1A, H317 - Skin Sensitization Category 1A, H317 May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long-lasting effects.

Contact person / technical support contact:

SL Protection OÜ

Phone: (+372) 55666174

E-mail: info@slprotection.eu

Limitation of liability

For general safety and handling information, please contact SL Protection OÜ. This information is based on our experiences and best knowledge. There is no guarantee for any recommendations or advice. We are not responsible for the completeness or accuracy of this information.