SAFETY DATA SHEET

Betsilan ADMIX PRO

(liquid)

Waterproofing concrete admixture

Date prepared: 2024 Revision date:

Version: 1

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

1.1. Product identifier

Product name Betsilan ADMIX PRO

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

Relevant identified uses *Industrial. Commercial. Building protective agent.*

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

1.3. 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*

1.4. Emergency telephone number

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

Emergency telephone - §45 - (EC)1272/2008

Europe	112
Estonia	16662 (24/7)
Finland	0800 147 111 (call is free of charge) +358 9 471 977
Austria	+43 (0)1 406 43 43
Bulgaria	+359 2 9154 233 (24/7)
Croatia	+385 1 2348 342 (24/7)
Czech Republic	+420 224 919 293 +420 224 915 402
Denmark	+45 8212 12 12
France	+33 (0)1 45 42 59 59 (24/7)
Greece	+30 2107793777 (24/7)
Iceland	543 2222 (24/7)
Ireland	+353 1 809 21 66 (8am-10pm; 7 days a week)
Italy	Numero telefonico del centro antiveleni: 0039 02-66101029

Latvia	+371 67042473
Lithuania	+370 (85) 2362052
Netherlands	Nationaal Vergiftigingen Informatie Centrum (NVIC): +31 (0)88 755 8000 Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen
Norway	+47 22 59 13 00
Portugal	+351 800 250 250 (24/7)
Romania	+40213183606
Slovakia	+421 2 5477 4166
Slovenia	112
Spain	+34 91 562 04 20(24h/365 días), Únicamente para respuesta sanitaria en caso de urgencia
Sweden	+46 10 456 6700

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

Flam.Liq. 3, H226

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

Labelling according to Regulation (EC) No. 1272/2008:

Label element

Signal word *Warning*

Hazard statements *H226 Flammable liquid and vapour.*

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection.
P233 Keep container tightly closed.
P370 + P378 In case of fire: Use extinguishing powder, alcohol-resistant foam or carbon dioxide to extinguish.
P403 + P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to waste disposal.

Supplemental label elements *Triethoxy(2,4,4-trimethylpentyl) silane. EC-No.: 252-558-1*

Other hazards *Inhalation of aerosol spray may damage health.*
The product hydrolyses under formation of ethanol (CAS-Nr. 64-17-5). Ethanol is classified concerning both physical and health hazards. The hydrolysis rate

and consequently, the relevance for the hazard profile of the product is strongly dependent on the specific conditions.

Endocrine disrupting properties - human health:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties - environment:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name:	Triethoxy(2,4,4-trimethylpentyl) silane
CAS number:	35435-21-3
EC number:	252-558-1
REACH Registration No.:	01-2119555666-27-0000
Concentration of the ingredient:	>90 %

REACH registered substances may be included as impurities. These do not necessarily require identified uses and exposure scenarios in the safety data sheet.
This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above ≥ 0.1%.

Classification of the ingredient according to Regulation (EC) No 1272/2008 of the European Parliament and of the Council:
Flam.Liq. 3, H226

Mixtures: *Not applicable.*

4. FIRST AID MEASURES

Description of first aid measures

General advice *In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).*

Inhalation *Provide fresh air.*

Eye contact *Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. In case of persistent discomfort: Consult an ophthalmologist.*

Skin contact *Wash off immediately with soap and plenty of water. Remove contaminated or soaked clothing. If skin irritation persists, get medical attention.*

Ingestion *Rince the mouth with water. Drink plenty of water in small sips. Do not induce vomiting. Seek medical advice immediately and clearly identify substance.*

Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

Indication of any immediate medical attention and special treatment needed

Further toxicology information in section 11 must be observed.

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media — *Alcohol-resistant foam, CO_2, water mist, sand, sprinkler system, extinguishing powder.*

Unsuitable extinguishing media — *Water jet.*

Special hazards arising from the substance or mixture

Risk of hazardous gases or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: toxic and very toxic fumes.

Advice for firefighters

Special protective equipment and precautions for fire-fighters

Use respiratory protection independent of recirculated air. Keep unprotected persons away.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin.
If material is released indicate risk of slipping. Do not walk through spilled material.

Methods and material for containment and cleaning up:

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

Environmental precautions: *Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible, without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.*

Further information: *Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection.*

Observe notes under section 7.

Reference to other sections *See Section 1 for emergency telephone numbers.*
See Section 5 for firefighting measures.
See Section 8 for appropriate personal protective equipment.
See Section 12 for ecological information.
See Section 13 for further information on waste disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

General information: *Always stir well before use.*

Safe handling advice: *Ensure adequate ventilation. Must be syphoned off in situ. Spilled substance increases the risk of slipping. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Observe information in section 8. Keep away from incompatible substances in accordance with section 10.*

Precautions against fire and explosion:
Product may release ethanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels: *Observe local/state/federal regulations.*

Advice for storage of incompatible materials: *Observe local/state/federal regulations.*

Further information for storage: *Store in a dry and cool place. Protect against moisture.*
Store container in a well ventilated place.

Minimum temperature allowed during storage and transportation: *+3 °C Do not allow this material to freeze.*

Maximum temperature allowed during storage and transportation: *+40 °C*

Specific end use(s) *No data available.*

If the annex to this safety data sheet contains exposure scenarios for end uses, the information provided therein has to be observed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Maximum airborne concentrations at the workplace:

Substance	Type	mg/m³	ppm
Ethanol	OEL	1920,0	1000,0

Aerosol - inhalable fraction		10,0	

The aerosol limit specified is a recommendation should aerosol be formed during processing.

Derived No-Effect Level (DNEL):

Triethoxy(2,4,4-trimethylpentyl)silane

Area of use:	Value:
Worker; by inhalation; systemic (long term) systemic (acute)	45 mg/m^3
Worker; dermal; systemic (long term) systemic (acute)	13,4 mg/kg/day
Consumer; by inhalation; systemic (long term)	11,3 mg/m^3
Consumer; by inhalation; systemic effects (acute/subacute)	67,8 mg/m^3
Consumer; dermal; systemic (long term)	9,5 mg/kg/day
Consumer; dermal; systemic effects (acute/subchronisch)	19 mg/kg/day
Consumer; oral; systemic (long term)	9,5 mg/kg/day
Consumer; oral; systemic (acute)	19 mg/mg/day

Predicted No Effect Concentration (PNEC):

Triethoxy(2,4,4-trimethylpentyl)silane

Area of use:	Value:
Freshwater	0,64 mg/l
Marine water	0,064 mg/l
Intermittent release	6,4 mg/l
Sediment (freshwater)	4,3 mg/kg dry mass
Sediment (marine water)	0,43 mg/kg dry mass
Soil	0,48 mg/kg dry mass
Sewage treatment plant	1 mg/l
Secondary poisoning	10 mg/kg food

Exposure controls
Exposure in the work place limited and controlled
General protection and hygiene measures:

Observe standard industrial hygiene practices for the handling of chemical substances. Avoid contact with eyes and skin. Clean work areas regularly. Use with adequate ventilation. Do not eat, drink or smoke when handling.

Further information for system design and engineering measures

Observe information in section 7. Observe national regulatory requirements.

Individual protection measures, such as personal protective equipment

Respiratory Protection: *If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136. Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapors; ammonia/amines), according to acknowledged standards such as EN 14387.*

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.

Recommended Filter type: Combined filter type ABEK-P2 (certain inorganic, organic and acidic gases and vapors; ammonia/amines; particles), according to acknowledged standards such as EN 14387.
Observe the equipment manufacturer's information and wear time limits for respirators.

Eye/face protection: *Safety glasses*

Hand Protection: *Use of protective gloves is recommended when handling the material, according to recognized standards such as EN374.*

Recommended glove types: *Protective gloves made of nitrile rubber thickness of the material: > 0,1 mm. Breakthrough time: > 480 min.*

Recommended glove types: *Protective gloves made of butyl rubber thickness of the material: > 0,3 mm. Breakthrough time: > 480 min*

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

Skin protection: *Chemical protective clothing, full-body liquid-tight protection if necessary. Please observe the instructions regarding permeability time which are provided by the supplier.*

Hygiene measures: *When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. Immediately remove contaminated clothing. Wash contaminated clothing before re-use.*

Exposure to the environment limited and controlled
Prevent material from entering surface waters, drains or sewers and soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	*Liquid*
Colour	*Colourless*
Odour	*Faint*
Odour threshold	*N/A*
Melting point:	*<-100 °C @ 1013 hPa*
Boiling Point:	*237°C @ 1013 hPa*
Freezing point:	*-140,5 °C*

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	*No data available.*
Explosive limit - lower:	*0,4 Vol-%*
Flash Point:	*42 °C*
Auto-ignition temperature:	*251 °C*
Decomposition Temperature:	*> 150 °C*
pH:	*Not applicable. Insoluble in water.*
Kinematic viscosity:	*1,98 mm^2/s @ 20 °C*

Dynamic viscosity: *1,9 mPa.s @ 25 °C*

Solubility in Water: *Practically insoluble.*

Partition coefficient (n-octanol/water): *6,1*

Vapor pressure: *0,089 hPa @25 °C*
0,532 hPa @50°C

Density: *0.88 g/cm^3 @20 °C*

Relative vapor density: *N/A*

Particle Size Distribution: *N/A*

Other information: *N/A*

Property:

Sustained combustibility *105 °C*

Evaporation rate *N/A*

Molecular weight *N/A*

Explosion group *II B*

10. STABILITY AND REACTIVITY

Reactivity *No dangerous reaction known under conditions of normal use.*

Chemical stability *Stable under the recommended storage and handling conditions.*

Explosion data

Possibility of hazardous reactions *None under normal processing.*

Conditions to avoid *Heat, open flames, moisture, and other sources of ignition.*

Incompatible materials *Reacts with water, basic substances and acids. The reaction takes place with the formation of ethanol.*

Hazardous decomposition products *Ethanol in case of hydrolysis. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C through oxidation.*

11. TOXICOLOGICAL INFORMATION

Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity

General information: *Based on the available data acute toxic effects are not expected after single oral exposure. Based on the available data acute toxic effects are not expected after single dermal exposure. Based on the available data acute toxic effects are not expected after short-term inhalative exposure.*

Product Information:

Exposure routes	Result/Effect
Oral	LD50 > 2000 mg/kg Species: Rat, Method: OECD 423, Source: test report.

dermal	LD50 > 2000 mg/kg Species: Rat, Method: OECD 402, Source: test report.
by inhalation ((spray))	LC50 > 11,2 mg/l; 4 h No mortality observed at this dose. Species: Rat, Test substance: read-across substance, Method: OECD 403, Source: test report.

Skin corrosion/irritation
Product details: *No skin irritation. (Species: Rabbit, Method: OECD 404, Source: test report).*

Serious eye damage/eye irritation
Product details: *No eye irritation. (Species: Rabbit, Method: OECD 405, Source: test report).*

Respiratory or skin sensitisation
Assessment: *Based on the available data a sensitisation reaction is not expected from this product.*
Product details: *Does not cause skin sensitization. (Species: Guinea pig, Test system: Maximisation Test, Method: OECD 406, Source: test report)*

Inhalation *No data available.*

Germ Cell Mutagenicity
Assessment: *Based on known data a significant mutagenic potential may be excluded.*
Product details: *Negative. Test system: mutation assay (in vitro) / bacterial cells, Method: OECD 471, Source: test report.*
Negative. Test system: chromosome aberration assay (in vitro) / mammalian cells, Method: OECD 473, Source: test report.
Positive (without metabolic activation), negative (with metabolic activation)
Positive results only in the presence of cytotoxicity.
Test system: chromosome aberration assay (in vitro) / mammalian cells, Method: OECD 473, Source: test report.
Negative. Test system: mutation assay (in vitro) / mouse lymphoma cells, Test substance: read-across substance, Method: OECD 476, Source: test report.
Negative. Test system: micro nucleus assay (in vivo), Species: Mouse Application Route: Oral, Cell type: erythrocytes, Method: OECD 474, Source: test report.

Carcinogenicity
Assessment: *Based on the available toxicological data no specific evaluation of the carcinogenic potential is scientifically implicated.*

Reproductive toxicity
Assessment: *Animal tests have shown no indications of possibility of damage to embryo and impairment of fertility.*
Product details:
Reproductive Toxicity/Fertility:
NOAEL: >= 1000 mg/kg
Test system: screening test, Species: Rat, Application Route: Oral, Method: OECD 422, Source: Conclusion by analogy.

Reproductive Toxicity/Development/Teratogenicity:
NOAEL (developmental): >= 1000 mg/kg
NOAEL (maternal): >= 1000 mg/kg
Symptoms/Effect: Nothing abnormal detected., Test system: Developmental Toxicity Study, Species: Rat, Application Route: Oral, Route of administration: gavage, Frequency of Treatment: day 6 - 20 of gestation, Method: OECD 414, Source: test report.

Specific target organ toxicity - single exposure

Assessment: *For this endpoint no toxicological test data is available for the whole product.*

Specific target organ toxicity - repeated exposure
Assessment: *Based on the available data the criteria for classification as toxic after repeated exposure are not fulfilled.*
Product details: *NOAEL: 150 mg/kg*
The given result is based on an evaluation of the whole database for this endpoint ("weight of evidence"). Target organs: Bladder, Test system: Subacute study, Species: Rat Application Route: Oral, Route of administration: gavage, Test period: 28 d, Frequency of Treatment: 7 d/w, Method: OECD 407, Source: test report.
NOAEC: >= 3 mg/l
Test system: Subacute study, Species: Rat Application Route: by inhalation, Route of administration: aerosol, Test period: 28 d, Frequency of Treatment: 5 d/w, hours/day: 6, Subsequent observation period: 14 d, Test substance: read-across substance, Method: OECD 412, Source: test report.

Aspiration hazard *For this endpoint no toxicological test data is available for the whole product.*

Other hazards
Endocrine disrupting properties
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further toxicological information *None known.*

Data on substances:

Product of hydrolysis (Ethanol): *Ethanol (CAS no. 64-17-5) is readily absorbed at all exposure routes. Ethanol may cause irritation of eyes and mucosa, trigger dysfunction of the central nervous system and cause nausea as well as dizziness. Chronic exposure to high amounts of ethanol may cause damage to liver and central nervous system.*

12. ECOLOGICAL INFORMATION

Toxicity

Assessment: *Up to the maximal solubility in the test medium the substance and its hydrolysis products do not show any acute effects on aquatic organisms that are relevant for classification and labelling. According to current knowledge adverse effects on water purification plants are not expected.*

Product Information

Species/Test system	Result/Effect
Semi-Static test Oncorhynchus mykiss (rainbow trout) (96 h)	LC50: > 100 mg/l (nominal)
Daphnia (water flea) (48 h)	EC50: The effect level is greater than the maximum achievable concentration.
Pseudokirchneriella subcapitata (green algae) (72 h)	IC50 (Growth rate): The effect level is greater than the maximum achievable concentration.
Activated sludge (3 h)	EC50: > 100 mg/l
Semi-Static test Daphnia magna (Water flea) (21 d)	NOEC (reproduction rate): 32 mg/l (measured) The effect level is greater than the maximum achievable concentration.

Persistence and degradability

Contact with water liberates ethanol and silanol- and/or siloxanol-compounds. The hydrolysis product (Ethanol) is readily biologically degradable.

Product information:

Biodegradation:

Method	Result
biological oxygen demand (BOD)	13 % / 28 d Not readily biodegradable. Rapid biological degradation of the organic hydrolysis product.

Hydrolysis:

Test system	Result
pH 7; 20 - 25 °C	Half-life: 22 h

Bioaccumulative potential *Product(s) of hydrolysis: Bioaccumulation is not expected to occur.*

Mobility in soil *No data known.*

Results of PBT and vPvB assessment

This product contains no relevant substances considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other adverse effects: *None known.*

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Material *Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.*

Uncleaned packaging *Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.*

Waste Disposal Legislation Ref. No. (EC)

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

14. TRANSPORT INFORMATION

Road ADR: *Not regulated for transport*

Rail RID: *Not regulated for transport*

Transport by sea IMDG-Code: *Not regulated for transport.*

Air transport ICAO-TI/IATA-DGR: *Not regulated for transport.*

Environmental hazards *Hazardous to the environment: no*

Special precautions for user: *Road transport: Not regulated in Class 3 - ADR/RID 2.2.3.1.1 NOTE 1 - Substance does not sustain combustion!*

Rail transport: Not regulated in Class 3 - ADR/RID 2.2.3.1.1 NOTE 1 - Substance does not sustain combustion!

Ship transport: Not regulated in Class 3 - IMDG 2.3.1.3 - as the substance does not sustain combustion!

Air transport: Not regulated in Class 3 - IATA 3.3.1.3 / ICAO 3.1.3 - Substance does not sustain combustion! Due to safety reasons no air transport in totes (IBC) or vented packaging!

Relevant information in other sections has to be considered.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Bulk transport in tankers is not intended.

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15. REGULATORY INFORMATION

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

National and local regulations must be observed.
For information on labelling please refer to section 2 of this document.

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III):

Listed in Directive	Ser. number in list	Qualifying Quantity 1	Qualifying Quantity 2
FLAMMABLE LIQUIDS	P5c	5.000 t	50.000 t

Relevant regulations:
SI 2002/1689: CHIP Regulations 2002
SI 2002/2677: COSHH Regulations 2002
SI 1999/3242: Management of Health & Safety at Work Regulations 1999
Health & Safety at Work Act 1974
SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.
Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

Other specifications, restrictions and prohibitions:

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable.
Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX I. RESTRICTED EXPLOSIVES PRECURSORS: Not applicable.

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX II. REPORTABLE EXPLOSIVES PRECURSORS: Not applicable.

Details of international registration status
Relevant information about individual substance inventories, where available, is given below.

Australia: *AIIC (Australian Inventory of Industrial Chemicals):*
This product is listed in, or complies with, the substance inventory.

China: *IECSC (Inventory of Existing Chemical Substances in China):*
This product is listed in, or complies with, the substance inventory.

Canada: *DSL (Domestic Substance List):*
This product is listed in, or complies with, the substance inventory.

Philippines: *PICCS (Philippine Inventory of Chemicals and Chemical Substances):*
This product is listed in, or complies with, the substance inventory.

United States of America (USA): *TSCA (Toxic Substance Control Act Chemical Substance Inventory):*
All components of this product are listed as active or are in compliance with the substance inventory.

Taiwan: *TCSI (Taiwan Chemical Substance Inventory):*
This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.

European Economic Area (EEA): *REACH (Regulation (EC) No 1907/2006):*
General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

South Korea (Republic of Korea): *AREC (Act on Registration and Evaluation of Chemicals; "K-REACH"):*
Please approach your regular contact for more detailed information.

Chemical safety assessment
For this product, a chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has been carried out.

16. OTHER INFORMATION

Identified uses with exposure scenarios:

Conditions for safe use, and - if applicable - a more detailed specification of the categories, can be found in related the exposure scenarios (ES) which are indicated in the right column.
Please note: Exposure scenarios usually are based only on single registered substances and their uses. Mixtures might contain other hazardous substances which require additional measures.

In mass hydrophobation; industriell	ES No.
SU 3 - ERC2, ERC5, ERC6a, ERC8f - PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC19 - SU 10, SU13, SU19 - PC15, PC0	1

In mass hydrophobation; professional	ES No.
SU 22 - ERC8f - PROC19 - SU13, SU19 - PC15, PC0	2

In mass hydrophobation; consumer	ES No.

SU 21 - ERC8f - PROC19 - PC15, PC0	3

Use as laboratory reagent; industrial	ES No.
SU 3 - PROC15 - SU24 - PC21	4

Key or legend to abbreviations and acronyms used in the safety data sheet

ABEK - Multi-Range Filter A, B, E, K; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; APF - Assigned Protection Factor; CAS No. - Chemical Abstracts Service Registry Number; DFG - German Research Foundation; DIN - German institute for standardization; DOC - Dissolved Organic Carbon; d/w - days per week; EC / CE / EG - European Community; EC50 / CE50 - Median effective concentration; ECHA - European Chemicals Agency; ED - endocrine disruptor; EG-RL - test method according to Regulation 440/2008; EN - European Standard; ERC - Environmental Release Category; g/cm³ - gram per cubic centimeter; h - hour(s); H-Code - hazard statement code(s); hPa - Hectopascal; IATA Regs - International Air Transport Association (IATA) Dangerous Goods Regulations;IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;IC50 / CI50 - half maximal inhibitory concentration;IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IMDG Code - International Maritime Dangerous Goods Code; ISO - International Organization for Standardization; LC50 / CL50 - medium lethal concentration; LD50 / DL50 - medium lethal dose; LOAEC - Lowest Observed Adverse Effect Concentration; LOAEL - Lowest Observed Adverse Effect Level; MARPOL - International Convention for the Prevention of Marine Pollution from Ships; mg/g - milligrams per gram; mg/kg - milligrams per kilogram; mg/l - milligrams per liter; mg/m³ - milligrams per cubic meter; min - minutes; mJ - millijoule; mm - millimeter; mm²/s - square millimeter per second; mPa.s - Millipascal second(s); MSDS / SDB / SDS - safety data sheet; No Observed Adverse Effect Concentration; NOAEL - No Observed adverse effect level; NOEC - No Observed Effect Concentration; NOEL - No Observed Effect Level; OECD - Organization for Economic Cooperation and Development; PBT - persistent, bioaccumulative, toxic; PC - product category; P-Code - precautionary statement code(s); ppm - parts per million; PROC - process category; RCP - reciprocal calculation-based procedure; RID - convention concerning international carriage by rail; SU - sector of use; SVHC - substance of very high concern; Vol% - volume percent; UN No. - United Nations Dangerous Goods Number; vPvB - very Persistent, very Bioaccumulative.

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.

Explanation of the GHS classification code:

Flam. Liq. 3; H226: *Flammable liquids Category 3; Flammable liquid and vapour.*

Further Information: *No data available.*

Revision date 2024

Contact person / technical support contact:

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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.