

**ZWALUW SILICONE-COLOURS+ NATURAL STONE
TRANSPARENT GREY**
Supersedes Date: 27-Aug-2019

Revision date 27-Aug-2019

Revision Number 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product Identifier**

Product Name	ZWALUW SILICONE-COLOURS+ NATURAL STONE TRANSPARENT GREY
Pure substance/mixture	Mixture

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

Recommended use	Sealant.
Uses advised against	None known

1.3. Details of the supplier of the safety data sheet**Company Name**

Bostik BV
De Voerman 8
PO Box 303
5215 MH's-Hertogenbosch, The Netherlands
Tel: +31 736 244 244
Fax: +31 736 244 344

E-mail address	SDS.box-EU@bostik.com
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1.4. Emergency telephone number

United Kingdom	+44 (1785) 272650
Ireland	+353 (1) 8624900 (Monday- Friday 9am-5pm)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Regulation (EC) No 1272/2008

Not classified

2.2. Label Elements

Not classified

Signal word

None

Hazard statements

Not classified

EU Specific Hazard Statements

EUH208 - Contains 3-(Triethoxysilyl) propylamine. May produce an allergic reaction
EUH210 - Safety data sheet available on request

Precautionary statements

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children

2.3. Other Hazards

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Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon curing
Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing

PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

Mixtures

Chemical name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
Octamethylcyclotetrasiloxane	209-136-7	556-67-2	0.1 - <1	Repr. 2 (H361f) Aquatic Chronic 4 (H413) Flam. Liq. 3 (H226) PBT vPBT		01-2119529238-36-XXXX
Dodecamethylcyclohexasiloxane	208-762-8	540-97-6	0.1 - <1	PBT vPvB		01-2119517435-42-XXXX
Decamethylcyclopentasiloxane	208-764-9	541-02-6	0.1 - <1	PBT vPBT		01-2119511367-43-XXXX
3-(Triethoxysilyl) propylamine	213-048-4	919-30-2	0.1 - <1	Skin Corr. 1B (H314) Skin Sens. 1 (H317) Acute Tox. 4 (H302)		01-2119480479-24-XXXX

Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.	SVHC candidates
Dodecamethylcyclohexasiloxane	540-97-6	X
Decamethylcyclopentasiloxane	541-02-6	X
Octamethylcyclotetrasiloxane	556-67-2	X

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Take a copy of the Safety Data Sheet when going for medical treatment.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

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Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person.

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

Symptoms No information available.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Full water jet. Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Thermal decomposition can lead to release of toxic and corrosive gases/vapours.

5.3. Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.

Other information Ventilate the area. Prevent further leakage or spillage if safe to do so.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

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Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Specific Use(s)
Sealant.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Exposure Limits Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon curing Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing

Chemical name	European Union	Ireland	United Kingdom
Methyl alcohol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ *	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 600 ppm STEL: 780 mg/m ³ Sk*	TWA: 200 ppm TWA: 266 mg/m ³ STEL: 250 ppm STEL: 333 mg/m ³ Sk*

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)

Dodecamethylcyclhexasiloxane (540-97-6)

Type	worker Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	11 mg/m ³

Type	worker Long term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	1.22 mg/m ³

3-(Triethoxysilyl) propylamine (919-30-2)

Type	worker Long term Systemic health effects
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Exposure route	Inhalation
Derived No Effect Level (DNEL)	59 mg/m ³

Type	worker Short term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	59 mg/m ³

Type	worker Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	8.3 mg/kg bw/d

Type	worker Short term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	8.3 mg/kg bw/d

Derived No Effect Level (DNEL)	
Dodecamethylcyclhexasiloxane (540-97-6)	
Type	Consumer Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	2.7 mg/m ³

Type	Consumer Long term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.3 mg/m ³

Type	Consumer Short term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	1.5 mg/m ³

Type	Consumer Long term Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	1.7 mg/kg bw/d

Type	Consumer Short term Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	1.7 mg/kg bw/d

Predicted No Effect Concentration (PNEC) No information available.

Predicted No Effect Concentration (PNEC)	
Dodecamethylcyclhexasiloxane (540-97-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Sewage treatment plant	1 mg/l
Freshwater sediment	13 mg/kg dry weight
Marine sediment	1.3 mg/kg dry weight
Soil	3.77 mg/kg dry weight

3-(Triethoxysilyl) propylamine (919-30-2)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.33 mg/l
Marine water	0.033 mg/l

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

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Personal Protective Equipment

Eye/face protection Tight sealing safety goggles.
Skin and body protection Suitable protective clothing.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Paste
Colour	Clear Grey
Odour	Characteristic
Odour threshold	No information available

Property	Values	Remarks • Method
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	No data available	
Flash point	> 100 °C	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapour pressure	No data available	
Vapour density	No data available	
Relative density	No data available	
Water solubility	No data available	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Explosive properties	No data available	
Oxidising properties	No data available	

9.2. Other information

Solid content (%)	No information available
Softening Point	No information available
Molecular weight	No information available
VOC Content (%)	0 g/L / 0 %
Density	1.02 g/cm ³
Bulk density	No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

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Explosion Data

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Stable under recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation Based on available data, the classification criteria are not met.
Eye contact Based on available data, the classification criteria are not met.
Skin contact Based on available data, the classification criteria are not met.
Ingestion Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

Acute Toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Octamethylcyclotetrasiloxane 556-67-2	LD50 > 4800 mg/kg (Rattus) OECD 401	LD50 > 2400 mg/kg (Rattus) OECD 402	=36 g/m ³ (Rattus) 4 h
Dodecamethylcyclohexasiloxane 540-97-6	>50 g/kg (Rattus)		
Decamethylcyclopentasiloxane 541-02-6	>24134 mg/kg (Rattus)	> 16 mL/kg (Oryctolagus cuniculus)	
3-(Triethoxysilyl) propylamine	LD50 = 1490 mg/kg (Rat,	LD50 = 4075 mg/kg	LC50 >144 mg/L (6h) Rat

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919-30-2	female) EPA OTS 798.1175	(Oryctolagus cuniculus) EPA OTS 798.1100	(Vapour)
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Octamethylcyclotetrasiloxane 556-67-2	Repr. 2

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to Micro-organisms	Crustacea	M-Factor
Octamethylcyclotetrasiloxane 556-67-2	-	LC50: >1000mg/L (96h, <i>Lepomis macrochirus</i>) LC50: >500mg/L (96h, <i>Brachydanio rerio</i>)	-	EC50: =25.2mg/L (24h, <i>Daphnia magna</i>)	-
3-(Triethoxysilyl) propylamine 919-30-2	EC50 (72h) >1000 mg/L Green algae (<i>desmodesmus subspicatus</i>) (OECD TG 201)	LC50 (96h) >934 mg/L (<i>Brachydanio rerio</i>) (OECD TG 203)	-	EC50 (48h) =331 mg/L <i>Daphnia magna</i> (OECD TG 202)	-

12.2. Persistence and degradability

Persistence and degradability No information available.

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12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Octamethylcyclotetrasiloxane 556-67-2	6.49	12400
Dodecamethylcyclohexasiloxane 540-97-6	8.87	-
Decamethylcyclopentasiloxane 541-02-6	8.02	-
3-(Triethoxysilyl) propylamine 919-30-2	1.7	3.4

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment . The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Octamethylcyclotetrasiloxane 556-67-2	PBT / vPvB substance The substance is not PBT / vPvB
Dodecamethylcyclohexasiloxane 540-97-6	PBT / vPvB substance The substance is not PBT / vPvB
Decamethylcyclopentasiloxane 541-02-6	PBT / vPvB substance The substance is not PBT / vPvB
3-(Triethoxysilyl) propylamine 919-30-2	The substance is not PBT / vPvB

12.6. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

Contaminated packaging Do not reuse empty containers. Handle contaminated packages in the same way as the product itself.

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN Number Not regulated

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14.2 Proper Shipping Name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing Group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special Provisions None

IMDG

14.1 UN number Not regulated
14.2 Proper Shipping Name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Marine Pollutant Np
14.6 Special Provisions None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number Not regulated
14.2 Proper Shipping Name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special Provisions None

Section 15: REGULATORY INFORMATION

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

European Union

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.
Dodecamethylcyclotetrasiloxane	540-97-6
Decamethylcyclopentasiloxane	541-02-6
Octamethylcyclotetrasiloxane	556-67-2

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	CAS No.	Restricted substance per REACH Annex XVII
Decamethylcyclopentasiloxane	541-02-6	70.
Octamethylcyclotetrasiloxane	556-67-2	70.

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

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Persistent Organic Pollutants

Not applicable

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

SECTION 16: Other information

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

Full text of H-Statements referred to under section 3

H361f - Suspected of damaging fertility
H413 - May cause long lasting harmful effects to aquatic life
H226 - Flammable liquid and vapour
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H302 - Harmful if swallowed

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend SECTION 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals		
STOT RE	Specific target organ toxicity - Repeated exposure		
STOT SE	Specific target organ toxicity - Single exposure		
EWC	European Waste Catalogue		

Key literature references and sources for data

No information available

Prepared By Product Safety & Regulatory Affairs

Revision date 27-Aug-2019

Indication of changes

Revision note Not applicable.

Training Advice No information available

Further information No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet