

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: EFRISUS BONDING KF+P
Other means of identification:
EFFISUS BONDING KF+P BLACK
UFI: T110-E02H-S007-S8VV

1.2 Relevant identified uses of the substance or mixture and uses advised against:
Relevant uses (Professional users): Adhesive and sealant. Relevant uses (Industrial user): Adhesive and sealant.
Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:
Effisus, Unipessoal Lda
Travessa José de Oliveira Mendes, 87 & 103
4760-912 Vila Nova de Famalicão - Porto - Portugal Phone:
+351252085574 - Fax: +351252081644
geral@effisus.com
www.effisus.com

1.4 Emergency telephone number: 800 250 250

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:
CLP Regulation (EC) No 1272/2008:
Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008. Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412

2.2 Label elements:
CLP Regulation (EC) No 1272/2008:
Hazard statements:
Aquatic Chronic 3 H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements:
P273: Avoid release to the environment.
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.
Supplementary information:
EUH208: Contains 3-aminopropyltriethoxysilane. May produce an allergic reaction.
UFI: T110-E02H-S007-S8VV

2.3 Other hazards:
The mixture contains components that are considered persistent, bioaccumulative, and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher: Dodecamethylcyclohexasiloxane, Decamethylcyclopentasiloxane. The mixture does not contain components considered to have endocrine disrupting properties according to Article 57 (f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:
Not relevant

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

3.2 Mixture:

Chemical description: Mixture based on PDMS polymer.

Components:

In accordance with Annex I of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 623-40-5 EC: 484-470-6	2-Pentanone oxime⁽¹⁾ Regulation 1272/2008 Acute Tox 4: H302; Aquatic Chronic 3: H412; Eye Irrit. 2: H319 - Warning	Self-classified !>1 - <2,5%
CAS: 919-30-2 EC: 213-048-4 Index: 612-108-00-0 REACH: 01-219480479-24-XXXX	3-aminopropyltriethoxysilane⁽¹⁾ Regulation 1272/2008 Danger	Self-classified !>0,1 - <1%
CAS: 540-97-6 EC: 208-762-8 Index: Not relevant REACH: 01-219517435-42-XXXX	Dodecamethylcyclohexasiloxane⁽²⁾ Regulation 1272/2008	Not classified >0,1 - <1%
CAS: 541-02-6 EC: 208-764-9 Index: Not relevant REACH: 01-219511367-43-XXXX	Decamethylcyclopentasiloxane⁽²⁾ Regulation 1272/2008 Aquatic Chronic 4: H413	Auto-classified >0,25 - <1%
CAS: 556-67-2 EC: 209-136-7 Index: 014-018-00-1 REACH: 01-219529238-36-XXXX	Octamethylcyclotetrasiloxane⁽¹⁾ Regulation 1272/2008 Aquatic Chronic 1: H410; Repr. 2: H361f - Warning	ATP ATP15 !>0,025 - <0,1%

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

⁽²⁾ PBT/vPvB substance

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

Identification	M-factor
Octamethylcyclotetrasiloxane CAS: 556-67-2	Acute 1
EC: 209-136-7	Chronic 10

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product. **By inhalation:**

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or if necessary shower the affected person thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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SECTION 4: FIRST AID MEASURES (continued)

4.2 Most important symptoms and effects, both acute and delayed:
Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:
Not relevant

SECTION 5: FIREFIGHTING MEASURES

4.1 Extinguishing media:
Suitable extinguishing media:
Carbon dioxide extinguisher (BC), Dry Chemical Powder (ABC) Fire Extinguisher, Water Mist Extinguisher (AC), Foam extinguisher alcohol resistant(AB)
Unsuitable extinguishing media:
Non-applicable

4.2 Special hazards arising from the substance or mixture:
As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.
In case of combustion, nitrogen oxides are formed/may be formed.

4.3 Advice for firefighters:
Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)
Additional provisions:
Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: For non-emergency personnel:
Collect the product and place in container for reuse (preferred) or disposal. **For emergency responders:**
Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:
Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:
It is recommended:
Impregnate with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust). Send for recovery or disposal in suitable containers. Dispose of contaminated material as waste in accordance with section 13.

6.4 Reference to other sections:
See sections 8 and 13.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights.

Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Due to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Preferably use vacuum extraction for cleaning. Given the environmental hazard of the product, it is advisable to use cleaning methods that minimize its dispersion into the surround

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Store in a cool, dry, well-ventilated location B.-

General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

Other information:

Keep the container tightly closed. Store in a cool and dark place. Heat will increase pressure and may cause the container to explode.

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country- specific legislation):

Nuisance dust: Inhalable dust 10 mg/m³ // Respirable dust 4 mg/m³

DNEL (Workers):

Identification	Oral	Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
2-Pentanone oxime	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 623-40-5	0,624 mg/kg	Not relevant	0,097 mg/kg	Not relevant	Not relevant
EC: 484-470-6	24,9 mg/m ³	Not relevant	51,54 mg/m ³	Not relevant	Not relevant
3aminopropyltriethoxsilane	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 919-30-2	Not relevant	Not relevant	2 mg/kg	Not relevant	Not relevant
EC: 213-048-4	Not relevant	Not relevant	14 mg/m ³	Not relevant	Not relevant
Calcium carbonate	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 471-34-1	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant
EC: 207-439-9	Not relevant	Not relevant	Not relevant	636 mg/m ³	Not relevant
Octamethylcyclotetrasiloxane CAS: 556-67-2	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant
EC: 209-136-7	Not relevant	Not relevant	Not relevant	73 mg/m ³	73 mg/m ³

DNEL (General population):

Not relevant

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

PNEC:

Identification		STP	2 mg/L	Fresh water	0,088 mg/L
2-Pentanone oxime	CAS: 623-40-5	Soil	0,05 mg/kg	Marine water	0,009 mg/L
EC: 484-470-6		Intermittent	Not relevant	Sediment (Fresh water)	0,501 mg/kg
		Oral	Not relevant	Sediment (Marine water)	0,05 mg/kg
3-aminopropyltriethoxysilane	CAS: 919-30-2	STP	0,81 mg/L	Fresh water	0,5 mg/l
EC: 213-048-4		Soil	0,069 mg/kg	Marine water	0,05 mg/l
		Intermittent	Not relevant	Sediment (Fresh water)	1,8 mg/l
		Oral	Not relevant	Sediment (Marine water)	0,18 mg/l
Calcium carbonate	CAS: 471-34-1	STP	100 mg/L	Fresh water	Not relevant
EC: 207-439-9		Soil	Not relevant	Marine water	Not relevant
		Intermittent	Not relevant	Sediment (Fresh water)	Not relevant
		Oral	Not relevant	Sediment (Marine water)	Not relevant
Octamethylcyclotetrasiloxane	CAS: 556-67-2	STP	10 mg/L	Fresh water	0,0015 mg/L
EC: 209-136-7		Soil	0,54 mg/kg	Marine water	0,00015 mg/L
		Intermittent	Not relevant	Sediment (Fresh water)	3 mg/kg
		Oral	0,041 g/kg	Sediment (Marine water)	0,3 mg/kg

8.2 Exposure controls:
A- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

If the working conditions and/or safety measures adopted do not allow keeping the airborne concentration of the product below the exposure limits (if any) or at acceptable levels (if no exposure limits exist), suitable respiratory protection equipment chosen by a qualified professional should be used. In case of brief exposure or low pollution (exceeding the TWA), use respiratory filter equipment. In case of intense or longer exposure, use breathing apparatus independent of the surrounding air.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Chemical protective gloves (Material: Nitrile, Breakthrough time: >480 min, Thickness: 0.4 mm)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing			Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE II is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes		EN ISO 20347:2022	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE II is recommended, in accordance with the regulations in EN ISO 20345:2022 y EN 13832- 1:2019

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

Emergency measure	Standards	Emergency measure	Standards
	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011		DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	4,38% weight
V.O.C. density at 20 °C:	43,91kg/m ³ (43,91g/L)
Average carbon number:	6,46
Average molecular weight:	180,89 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties: For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:	Solid
Appearance:	Paste
Colour:	Black
Odour:	Characteristic
Odour threshold:	Not relevant *

Volatility:

Boiling point at atmospheric pressure:	Not relevant *
Vapour pressure at 20 °C:	Not relevant *
Vapour pressure at 50 °C:	Not relevant *
Evaporation rate at 20 °C:	Not relevant *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Product description:

Density at 20 °C:	1,23g/cm ³
Relative density at 20 °C:	Not relevant *
Dynamic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 40 °C:	Not relevant *
Concentration:	Not relevant *
pH:	Not relevant *
Vapour density at 20 °C:	Not relevant *
Partition coefficient n-octanol/water 20 °C:	Not relevant *
Solubility in water at 20 °C:	Not relevant *
Solubility properties:	Immiscible or difficult to mix
Decomposition temperature:	Not applicable
Melting point/freezing point:	Not relevant *

Flammability:

Flash Point:	Not relevant *
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	Not self-igniting
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

Explosive (Solid):

Lower explosive limit:	Not relevant *
Upper explosive limit:	Not relevant *

Particle characteristics:

Median equivalent diameter:	Not relevant *
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9.2 Other information:
Information with regard to physical hazard classes:

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *

Other safety characteristics:

Surface tension at 20 °C:	Not relevant *
Refraction index:	Not relevant *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

In case of contact with water (or moisture in the air), small amounts of 2-pentanone oxime may form.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:****Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity :Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: Not relevant
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

F- Specific target organ toxicity (STOT)-single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant

Product-specific toxicological information:

	Acute toxicity	Genus
LD50 oral	>2000mg/kg	

Specific toxicology information on the substances:

Identification	Acute toxicity	Genus
Decamethylcyclopentasiloxane CAS: 541-02-6 EC: 208-764-9	LD50 oral >2000mg/kg	
Octamethylcyclotetrasiloxane CAS: 556-67-2 EC: 209-136-7	LD50 dermal LC50 inhalation vapour 8.67 mg/L (4 h)	Rat
	LD50 oral LD50 dermal LC50 inhalation vapour	
	>2000mg/kg >2000mg/kg 36 mg/L (4 h)	

Repeated dose toxicity:

Identification	NOAEL	Genus
Decamethylcyclopentasiloxane CAS: 541-02-6 EC: 208-764-9	NOAEL oral 1000 mg/kg	Rat
	NOAEL dermal 1600mg/kg	Rat
	NOAEL inhalation vapour 160 mg/L	Rat

11.2 Information on other hazards:

Endocrine disrupting properties

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

Other information

Not relevant

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SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available. Harmful to aquatic life with long lasting effects.

12.1 Toxicity:**Acute toxicity:**

Identification	Concentration	Species	Genus
Octamethylcyclotetrasiloxane	LC50 >500 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 556-67-2	EC50 252 mg/L (24 h)	Daphnia magna	Crustacean
EC: 209-136-7	EC50 Not relevant		

12.2 Persistence and degradability:

Not relevant

12.3 Bioaccumulative potential:**Substance-specific information:**

Identification	Bioaccumulation potential
Decamethylcyclopentasiloxane	BCF
CAS: 541-02-6	Pow Log
EC: 208-764-9	Potential
Octamethylcyclotetrasiloxane	BCF
CAS: 556-67-2	Pow Log
EC: 209-136-7	Potential

12.4 Mobility in soil:

Not relevant. Do not allow the product to reach groundwater, water bodies, or sewage systems.

12.5 Results of PBT and vPvB assessment:

The mixture contains components considered persistent, bioaccumulative, and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Octamethylcyclotetrasiloxane: Persistent, bioaccumulative, and toxic (PBT) | Very persistent and very bioaccumulative (vPvB).

Dodecamethylcyclohexasiloxane: Persistent, bioaccumulative, and toxic (PBT) | Very persistent and very bioaccumulative (vPvB).

Decamethylcyclopentasiloxane: Persistent, bioaccumulative, and toxic (PBT) | Very persistent and very bioaccumulative (vPvB).

12.6 Endocrine disrupting properties:

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

12.7 Other adverse effects:

Not described

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09	
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances	Hazardous

Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

If section 3 of this safety data sheet includes organic solvents or other hazardous substances, the waste from them must be classified as hazardous (*).

Waste from cleaning:

08 04 11* Sludges from adhesives and sealants containing organic solvents or other dangerous substances 08 04 12*

Sludges from adhesives and sealants other than those mentioned in 08 04 11

Dirty packaging waste:

15 01 10* Packaging containing residues of hazardous substances or contaminated with hazardous substances. Clean packaging waste:

15 01 01 Paper and cardboard packaging

15 01 02 Plastic packaging

Regulations related to waste management:

In accordance with Annex I of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR and RID:

14.1 UN number or ID number:	Not relevant
14.2 UN proper shipping name:	Not relevant
14.3 Transport hazard class(es):	Not relevant
Labels:	Not relevant
14.4 Packing group:	Not relevant
14.5 Environmental hazards:	No
14.6 Special precautions for user	
Special regulations:	Not relevant
Tunnel restriction code:	Not relevant
Physico-Chemical properties:	see section 9
Limited quantities:	Not relevant
14.7 Maritime transport in bulk according to IMO instruments:	Not relevant

Transport of dangerous goods by sea:

With regard to IMDG:

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SECTION 14: TRANSPORT INFORMATION (continued)

14.1 UN number or ID number:	Not relevant
14.2 UN proper shipping name:	Not relevant
14.3 Transport hazard class(es):	Not relevant
Labels:	Not relevant
14.4 Packing group:	Not relevant
14.5 Marine pollutant:	No
14.6 Special precautions for user	
Special regulations:	Not relevant
EmS Codes:	
Physico-Chemical properties:	see section 9
Limited quantities:	Not relevant
Segregation group:	Not relevant
14.7 Maritime transport in bulk according to IMO instruments:	Not relevant
Transport of dangerous goods by air:	
With regard to IATA/ICAO:	
14.1 UN number or ID number:	Not relevant
14.2 UN proper shipping name:	Not relevant
14.3 Transport hazard class(es):	Not relevant
Labels:	Not relevant
14.4 Packing group:	Not relevant
14.5 Environmental hazards:	No
14.6 Special precautions for user	
Physico-Chemical properties:	see section 9
14.7 Maritime transport in bulk according to IMO instruments:	Not relevant

SECTION 15: REGULATORY INFORMATION

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

- Article 95, Regulation (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH):
Dodecamethylcyclohexasiloxane (540-97-6); Decamethylcyclopentasiloxane (541-02-6); Octamethylcyclotetrasiloxane (556-67-2)
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- Regulation (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

Not relevant

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ...):

Entry 70: Contains Decamethylcyclopentasiloxane, Dodecamethylcyclohexasiloxane. 1. Shall not be placed on the market (a) as a substance on its own
 (b) as a constituent of other substances or
 (c) in mixtures
 in a concentration equal to or greater than 0,1% by weight of the respective substance after 6 June 2026. 2. Shall not be used as a solvent for the dry cleaning of textiles, leather and fur after 6 June 2026. 3. By way of derogation: (a) for D4 and D5 in wash-off cosmetic products, paragraph 1, point (c), shall apply after 31 January 2020. For the purposes of this point, "wash-off cosmetic products" means cosmetic products as defined in Article 2(1), point (a), of Regulation (EC) No 1223/2009 of the European Parliament and of the Council that, under normal conditions of use, are washed off with water after application
 (b) for all cosmetic products other than the ones mentioned in paragraph 3(a), paragraph 1 shall apply after 6 June 2027
 (c) for devices as defined in Article 1(4) of Regulation (EU) 2017/745 of the European Parliament and of the Council and in Article 1(2) of Regulation (EU) 2017/746 of the European Parliament and the Council, paragraph 1 shall apply after 6 June 2031

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SECTION 15: REGULATORY INFORMATION (continued)

(d) for medicinal products, as defined in Article 1, point 2, of Directive 2001/83/EC, and for veterinary medicinal products, as defined in Article 4(1) of Regulation (EU) 2019/6, paragraph 1 shall apply after 6 June 2031

(e) for D5 as a solvent in the dry cleaning of textiles, leather and fur, paragraphs 1 and 2 shall apply after 6 June 2034.

4. By way of derogation, paragraph 1 shall not apply to the: (a) placing on the market of D4, D5 and D6 for the following industrial uses: — as a monomer in the production of silicone polymer, — as an intermediate in the production of other silicon substances, — as a monomer in polymerisation, — in the formulation or (re)packing of mixtures, — in the production of articles, — in non-metal surface treatment

(b) placing on the market of D5 and D6 for use as devices, as defined in Article 1(4) of Regulation (EU) 2017/745, for the treatment and care of scars and wounds, the prevention of wounds and the care of stoma

(c) placing on the market of D5 for professional use in the cleaning or restoration of art and antiques

(d) placing on the market of D4, D5 and D6 for use as laboratory reagent in research and development activities carried out under controlled conditions. 5. By way of derogation, paragraph 1, point (b), shall not apply to the placing on the market of D4, D5 and D6: — as a constituent of a silicone polymer on its own, — as a constituent of a silicone polymer in a mixture derogated under paragraph 6. 6. By way of derogation, paragraph 1, point (c), shall not apply to the placing on the market of mixtures that contain D4, D5 or D6 as residues from silicone polymers, under the following conditions: (a) D4, D5 or D6 in a concentration equal to or less than 1% by weight of the respective substance in the mixture, for use in adhesion, sealing, gluing and casting

(e) D4 in a concentration equal to or less than 0,5% by weight, or D5 or D6 in a concentration equal to or less than 0,3% by weight of either substance in the mixture for use as protective coatings (including marine coatings)

(c) D4, D5 or D6 in a concentration equal to or less than 0,2% by weight of the respective substance in the mixture, for use as devices as defined in Article 1(4) of Regulation (EU) 2017/745 and in Article 1(2) of Regulation (EU) 2017/746, other than the devices referred to in paragraph 6(d)

(d) D5 in a concentration equal to or less than 0,3% by weight in the mixture or D6 in a concentration equal to or less than 1% by weight in the mixture, for use as devices as defined in Article 1(4) of Regulation (EU) 2017/745, for dental impression

(e) D4 in a concentration equal to or less than 0,2% by weight in the mixture, or D5 or D6 in a concentration equal to or less than 1% by weight of either substance in the mixture for use as silicone insoles for horses, or as horseshoes

(f) D4, D5 or D6 in a concentration equal to or less than 0,5% by weight of the respective substance in the mixture, for use as adhesion promoters

(g) D4, D5 or D6 in a concentration equal to or less than 1% by weight of the respective substance in the mixture, for use in 3D-printing

(h) D5 in a concentration equal to or less than 1% by weight in the mixture or D6 in a concentration equal to or less than 3% by weight in the mixture, for rapid prototyping and mould making, or high performance uses stabilised by quartz filler

(i) D5 or D6 in a concentration equal to or less than 1% by weight of either substance in the mixture, for use in pad printing, or manufacturing of printing pads

(j) D6 in a concentration equal to or less than 1% by weight of the mixture, for professional use in the cleaning or restoration of art and antiques. 7. By way of derogation, paragraphs 1 and 2 shall not apply to the placing on the market for use, or to the use, of D5 as a solvent in strictly controlled closed dry cleaning systems for textile, leather and fur, where the cleaning solvent is recycled or incinerated.

Entry 20: Contains diocetyltin oxide. 1. Shall not be placed on the market or used as substances or in mixtures acting as biocides in paints where the biocides are not chemically bound to the other components.

2. Shall not be placed on the market or used as substances or in mixtures that act as biocides to prevent the attachment of microorganisms, plants, or animals:

On all vessels, regardless of their length, intended for use in marine, coastal, estuarine, and inland waterways or lakes;

(a) Cages, floats, nets, and any other devices or equipment used in fish or shellfish farming;

(b) Any device or equipment that is totally or partially submerged. 3. They may not be placed on the market or used as substances or in mixtures intended for use in the treatment of industrial water.

Laboral exposure to respirable crystalline silica must be controlled in accordance with Directive (EU) 2022/431, of the European Parliament and of the Council, of March 9, 2022, amending Directive 2004/37/EC, relating to the protection of workers against risks related to exposure to carcinogens or mutagens during work.

Directive 2011/65/EU of the European Parliament and of the Council of June 8, 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS): Not relevant

Council Regulation (EC) No. 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: Not banned and/or restricted

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace- specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation.

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SECTION 15: REGULATORY INFORMATION (continued)**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION**Legislation related to safety data sheets:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Not relevant

Texts of the legislative phrases mentioned in section 2:

H412: Harmful to aquatic life with long lasting effects.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself, they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Aquatic

Chronic 3 H412 - Harmful to aquatic life with long lasting effects. Aquatic Chronic 4: H413 -
May cause long lasting harmful effects to aquatic life. Eye Dam. 1: H318 - Causes serious eye
damage.

Eye Irrit. 2: H319 - Causes serious eye irritation. Repr. 2

H361f - Suspected of damaging fertility.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Sens. 1:

H317 - May cause an allergic skin reaction.

Classification procedure:

Aquatic Chronic 3 Calculation method

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

DNEL: Derived No-Effect Level

PNEC: Predicted No-Effect Concentration

NOAEL: No Observed Adverse Effect Level

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -