

**TOP GASKET**

Creation date	25th April 2025	Version	3.0
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Substance / mixture	TOP GASKET
Number	mixture
UFI	1 05.0002
	Q692-483W-XY09-88JT

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Mixture's intended use**

Barrier (Sealant). For professional use only.

**Main intended use**

PC-ADH-5 Adhesives and sealants - transportation industry

**Mixture uses advised against**

The product should not be used in ways other than those referred in Section 1.

**1.3. Details of the supplier of the safety data sheet****Supplier**

Name or trade name	RETECH, s.r.o.
Address	Vackova 1541/4, Praha 5 - Stodůlky, 155 00
	Czech Republic
Identification number (CRN)	25018205
VAT Reg No	CZ25018205
Phone	+420327596428
E-mail	info@retech.cz
Web address	www.retech.com

**Email address for a competent person responsible for the safety data sheet**

Name	RETECH, s.r.o.
E-mail	info@retech.cz

**1.4. Emergency telephone number**

European emergency number: 112

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Aerosol 3, H229  
Skin Irrit. 2, H315  
Eye Dam. 1, H318  
Aquatic Chronic 3, H412

**Most serious adverse physico-chemical effects**

Pressurised container: May burst if heated.

**Most serious adverse effects on human health and the environment**

Causes skin irritation. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Hazard pictogram****Signal word**

Danger

**Hazardous substances**

methyltriacetooxysilane

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**Hazard statements**

H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P280	Wear protective gloves/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Supplemental information**

EUH208	Contains Dimethylbis[(1-oxonodecyl)oxy]stannane. May produce an allergic reaction.
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**2.3. Other hazards**

Does not contain any PBT or vPvB components  $\geq 0,1$  %. The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Chemical characterization**

Mixture.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 1645-83-6	1-Propene, 1,3,3,3-tetrafluoro-	1-<5	Press. Gas (liquefied gas), H280	
CAS: 4253-34-3 EC: 224-221-9 Registration number: 21-2119987097-22	methyltriacetooxysilane	1-<5	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 EUH014 Specific concentration limit: ATE Oral = 500 mg/kg bw	
CAS: 13170-23-5 EC: 236-112-3 Registration number: 01-2119987098-20	diacetoxidi-tert-butoxysilane	1-<5	Skin Corr. 1B, H314 Eye Dam. 1, H318	
CAS: 556-67-2 EC: 209-136-7 Registration number: 01-2119529238-36	octamethylcyclotetrasiloxane	0.02-<0.2	Repr. 2 (***), H361f Aquatic Chronic 1, H410 (M=10)	3, 4, 5, 6

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 607-002-00-6 CAS: 64-19-7 EC: 200-580-7 Registration number: 01-2119475328-30	acetic acid ... %	0.01-<0.1	Flam. Liq. 3, H226 Skin Corr. 1A, H314 Specific concentration limit: Skin Corr. 1A, H314: C ≥ 90 % Skin Irrit. 2, H315: 10 % ≤ C < 25 % Skin Corr. 1B, H314: 25 % ≤ C < 90 % Eye Irrit. 2, H319: 10 % ≤ C < 25 %	1, 2
CAS: 68928-76-7 EC: 273-028-6 Registration number: 01-2120770324-57	Dimethylbis[(1-oxoneodecyl)oxy] stannane	0.01-<0.1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Chronic 3, H412	

### Notes

\*\* reproductive toxicity: supplementary letters specify whether fetal harm (d) or fertility harm (f) may occur

- Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
- A substance for which exposure limits are set.
- Substance of very high concern - SVHC.
- Persistent, bioaccumulative and toxic
- Very persistent and very bioaccumulative
- The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

#### If inhaled

Provide medical treatment. Terminate the exposure immediately; move the affected person to fresh air. Respiratory arrest - provide artificial respiration immediately. Take care of your own safety.

#### If on skin

Remove contaminated clothes. Rinse skin with water/shower. Provide medical treatment.

#### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Provide medical treatment.

#### If swallowed

Provide medical treatment. Rinse out the mouth with water and provide 2-5 dL of water. Do not induce vomiting unless directed to do so by medical personnel.

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**4.2. Most important symptoms and effects, both acute and delayed****If inhaled**

not available

**If on skin**

Causes skin irritation.

**If in eyes**

Causes serious eye damage.

**If swallowed**

not available

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

not available

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, foam, powder. Water mist.

**Unsuitable extinguishing media**

Water - full jet.

**5.2. Special hazards arising from the substance or mixture**

Do not breathe smoke.

**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water. Dispose of contaminated extinguishing water and remains after the fire in accordance with the official regulations. EN137 - Respiratory protective devices — Self-contained open-circuit compressed air breathing apparatus with full face mask. EN 469 - Protective clothing for firefighters - Performance requirements for protective clothing for firefighting. EN 659+A1: - Protective gloves for firefighters.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Stop leak if safe to do so. Pressurised container: May burst if heated. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8.

**6.2. Environmental precautions**

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

**6.3. Methods and material for containment and cleaning up**

Ventilate the room. Large spills may be taken up with pump. Assess the compatibility of the container you will be using for this product according to the information in Section 10. Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Ground and bond container and receiving equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Prevent contact with skin and eyes. Do not inhale dust. Do not breathe mist. Do not inhale vapours. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Avoid release to the environment. Observe valid legal regulations on safety and health protection.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep only in original packaging. Store in a well-ventilated place. Remove all ignition sources. Keep container tightly closed. Do not store in unlabeled containers. Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Do not subject to shock. Store away from incompatible materials.

Content	Packaging type	Material of package
215 ml	pressure receptacle / gas container	ALU

#### 7.3. Specific end use(s)

not available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### European Union

#### Commission Directive (EU) 2017/164

Substance name (component)	Type	Value
acetic acid ... % (CAS: 64–19–7)	OEL 8 hours	25 mg/m <sup>3</sup>
	OEL 8 hours	10 ppm
	OEL 15 minutes	50 mg/m <sup>3</sup>
	OEL 15 minutes	20 ppm

#### DNEL

1-Propene, 1,3,3,3-tetrafluoro-			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	3902 mg/m <sup>3</sup>	Chronic effects systemic
Consumers	Inhalation	830 mg/m <sup>3</sup>	Chronic effects systemic

diacetoxidi-tert-butoxysilane			
Workers / consumers	Route of exposure	Value	Effect
Consumers	Oral	10.69 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	37.2 mg/m <sup>3</sup>	Chronic effects systemic
Consumers	Dermal	10.69 mg/kg bw/day	Chronic effects systemic
Workers	Inhalation	150.84 mg/m <sup>3</sup>	Chronic effects systemic
Workers	Dermal	21.39 mg/kg bw/day	Chronic effects systemic

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### methyltriacetooxysilane

Workers / consumers	Route of exposure	Value	Effect
Consumers	Oral	1 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	5.1 mg/m <sup>3</sup>	Chronic effects local
Consumers	Inhalation	6.3 mg/m <sup>3</sup>	Chronic effects systemic
Consumers	Dermal	7.2 mg/kg bw/day	Chronic effects systemic
Workers	Inhalation	31 mg/m <sup>3</sup>	Chronic effects local
Workers	Inhalation	25 mg/m <sup>3</sup>	Chronic effects systemic
Workers	Dermal	14.5 mg/kg bw/day	Chronic effects systemic

### octamethylcyclotetrasiloxane

Workers / consumers	Route of exposure	Value	Effect
Consumers	Inhalation	61 mg/m <sup>3</sup>	Acute effects local
Consumers	Inhalation	305 mg/m <sup>3</sup>	Acute effects systemic
Consumers	Inhalation	61 mg/m <sup>3</sup>	Chronic effects local
Consumers	Inhalation	305 mg/m <sup>3</sup>	Chronic effects systemic

### PNEC

#### 1-Propene, 1,3,3,3-tetrafluoro-

Route of exposure	Value
Freshwater environment	0.1 mg/l
Marine water	1 mg/l

#### diacetoxidi-tert-butoxysilane

Route of exposure	Value
Freshwater environment	0.02875 mg/l
Marine water	0.02875 mg/l
Freshwater sediment	0.03279 mg/kg/24h
Sea sediments	0.003279 mg/kg/24h
Microorganisms in sewage treatment	13.276 mg/l

### methyltriacetooxysilane

Route of exposure	Value
Freshwater environment	1 mg/l
Marine water	0.1 mg/l
Freshwater sediment	3.4 mg/kg
Sea sediments	0.34 mg/kg
Water (intermittent release)	10 mg/l
Microorganisms in sewage treatment	10 mg/l
Soil (agricultural)	0.145 mg/kg

### octamethylcyclotetrasiloxane

Route of exposure	Value
Marine water	0.044 mg/l
Freshwater sediment	0.128 mg/kg
Microorganisms in sewage treatment	100 mg/l

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**octamethylcyclotetrasiloxane**

Route of exposure	Value
Soil (agricultural)	0.16 mg/kg

**8.2. Exposure controls**

Technical precautions and appropriate working practices take precedence over personal protective equipment. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Personal protective equipment must bear the CE marking, verifying its conformity with the applicable regulations. Ensure workplace is equipped with a safety shower and eye wash station.

**Eye/face protection**

Tightly sealed goggles.

**Skin protection**

Hand protection: Protective gloves resistant to the product. Category III. EN ISO 374-1. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: Wear category II professional long-sleeved overalls and safety footwear (see Regulation (EU) 2016/425 and standard EN ISO 20344). Contaminated skin should be washed thoroughly.

**Respiratory protection**

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Mask with a filter in a poorly ventilated environment. Filter A. EN 14387. Self-contained breathing apparatus must be available in case of emergency. EN137 - Respiratory protective devices — Self-contained open-circuit compressed air breathing apparatus with full face mask. EN138 - Respiratory protective devices - Specification for fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece assembly. EN 529 - Respiratory protective devices. Recommendations for selection, use, care and maintenance. Guidance document.

**Thermal hazard**

Not available.

**Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	liquid
Colour	black
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	-19 °C (hnací plyn)
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	>150 °C
Auto-ignition temperature	>400 °C
Decomposition temperature	368 °C (hnací plyn)
pH	data not available
Kinematic viscosity	non-soluble (in water)
Solubility in water	data not available
Solubility in fats	insoluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	427.1 at 20 °C (hnací plyn)
Density	
Relative density	data not available
	1.1

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Relative vapour density	data not available
Particle characteristics	data not available
Form	cream / paste
data not available	

**9.2. Other information**

Evaporation rate	data not available
Content of organic solvents (VOC)	3.23 % - 34.60 g/l

**SECTION 10: Stability and reactivity**
**10.1. Reactivity**

See the Section 10.3.

**10.2. Chemical stability**

not available

**10.3. Possibility of hazardous reactions**

Reacts violently with water.

Acetic acid

Risk of explosion on contact with: chromium dioxide, potassium permanganate, sodium peroxide, perchloric acid, phosphorus pentachloride, hydrogen peroxide.

May react dangerously with: alcohols, phosphorus pentabromide, chlorosulfuric acid, chromic acid, ethylenediamine, ethylene glycol, potassium hydroxide, strong bases, sodium hydroxide, strong oxidizing agents, nitric acid, ammonium nitrate, potassium tert-butoxide, oleum.

Forms explosive mixtures with air.

**10.4. Conditions to avoid**

Moisture. Protect against overheating.

Acetic acid

Keep away from heat, open flames.

**10.5. Incompatible materials**

Acetic acid

Incompatible materials: carbonates, hydroxides, phosphates, oxidizing substances, bases.

**10.6. Hazardous decomposition products**

not available

**SECTION 11: Toxicological information**
**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

No toxicological data is available for the mixture. In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

**Acute toxicity**

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

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Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	>5000 mg/kg		Rat	
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rabbit	
Oral	ATE	>2000 mg/kg			



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### 1-Propene, 1,3,3,3-tetrafluoro-

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	LC <sub>50</sub>	>1157.752 ppm	4 hours	Rat	

### acetic acid ... %

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	3310 mg/kg		Rat	
Dermal	LD <sub>50</sub>	1060 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	11.4 mg/l	4 hours	Rat	

### Dimethylbis[(1-oxoneodecyl)oxy]stannane

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rabbit	
Oral	LD <sub>50</sub>	890 mg/kg		Rat	

### methyltriacetooxysilane

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	ATE	500 mg/kg bw			

### octamethylcyclotetrasiloxane

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Dermal	LD <sub>50</sub>	>2375 mg/kg		Rat	
Oral	LD <sub>50</sub>	4800 mg/kg		Rat	M
Inhalation (vapor)	LC <sub>50</sub>	36 mg/l		Rat	F/M

### Skin corrosion/irritation

Causes skin irritation. Data for the components of the mixture are not available.

### Serious eye damage/irritation

Causes serious eye damage. Data for the components of the mixture are not available.

### Respiratory or skin sensitisation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Germ cell mutagenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Carcinogenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Toxicity for specific target organ - single exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

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**Toxicity for specific target organ - repeated exposure**

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

**Aspiration hazard**

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

**11.2. Information on other hazards**
**Endocrine disrupting properties**

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

**Other information**

not available

**SECTION 12: Ecological information**
**12.1. Toxicity**

Harmful to aquatic life with long lasting effects.

**Acute toxicity**

<b>1-Propene, 1,3,3,3-tetrafluoro-</b>				
Parameter	Value	Exposure time	Species	Environment
EC <sub>50</sub>	>160 mg/l	48 hours	Crustaceans	
EC <sub>50</sub> (EC <sub>x</sub> )	>160 mg/l	48 hours	Crustaceans	
EC <sub>50</sub>	>170 mg/l	72 hours	Algae	

<b>diacetoxydi-tert-butoxysilane</b>				
Parameter	Value	Exposure time	Species	Environment
LC <sub>50</sub>	192.34 mg/l	96 hours	Fish	
LC <sub>50</sub>	28.75 mg/l	72 hours	Algae	

<b>Dimethylbis[(1-oxoneodecyl)oxy]stannane</b>				
Parameter	Value	Exposure time	Species	Environment
EC <sub>50</sub>	39 mg/l	48 hours	Daphnia (Daphnia magna)	
EC <sub>50</sub>	7.6 mg/l	72 hours	Algae (Selenastrum capricornutum)	

<b>octamethylcyclotetrasiloxane</b>				
Parameter	Value	Exposure time	Species	Environment
LC <sub>50</sub>	>0.022 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC <sub>50</sub>	0.015 mg/l	48 hours	Daphnia (Daphnia magna)	
EC <sub>50</sub>	>0.022 mg/l	96 hours	Algae (Pseudokirchneriella subcapitata)	

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### Chronic toxicity

octamethylcyclotetrasiloxane				
Parameter	Value	Exposure time	Species	Environment
NOEC	>0.0044 mg/l		Fish (Oncorhynchus mykiss)	
NOEC	>0.0015 mg/l		Daphnia (Daphnia magna)	

### 12.2. Persistence and degradability

Data for the mixture are not available.

#### Biodegradability

acetic acid ... %					
Parameter	Method	Value	Exposure time	Environment	Result
S, Sol		>10000 mg/l			

diacetoxydi-tert-butoxysilane					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	79.5 %	28 days		

### 12.3. Bioaccumulative potential

Data for the mixture are not available.

acetic acid ... %					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Kow	-0.17				

### 12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met.

### 12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Contains PBT and vPvB components.

### 12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

### 12.7. Other adverse effects

Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Reuse if possible. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

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**Waste type code**

08 04 09\* waste adhesives and sealants containing organic solvents or other hazardous substances

**Packaging waste type code**

15 01 11\* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

**SECTION 14: Transport information**
**14.1. UN number or ID number**

UN 1950

**14.2. UN proper shipping name**

AEROSOLS

**14.3. Transport hazard class(es)**

2 Gases

**14.4. Packing group**

not relevant

**14.5. Environmental hazards**

not relevant

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

**14.7. Maritime transport in bulk according to IMO instruments**

not relevant

**Additional information**

Hazard identification No.

UN number

Classification code

Safety signs



5A

2.2



Tunnel restriction code

(E)

**Marine transport - IMDG**

EmS (emergency plan)

MFAG

F-D, S-U

620

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended**

octamethylcyclotetrasiloxane

Restriction	Conditions of restriction

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octamethylcyclotetrasiloxane

Restriction	Conditions of restriction
70	<p>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.</p> <p>2. Shall not be used as a solvent for the dry cleaning of textiles, leather and fur after 6 June 2026.</p> <p>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; (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.</p> <p>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.</p> <p>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.</p> <p>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; (b) 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</p>

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Restriction	Conditions of restriction
	<p>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);</p> <p>(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;</p> <p>(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;</p> <p>(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;</p> <p>(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;</p> <p>(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;</p> <p>(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;</p> <p>(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.</p> <p>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.</p>

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**SECTION 16: Other information**
**A list of standard risk phrases used in the safety data sheet**

EUH014	Reacts violently with water.
EUH208	Contains Dimethylbis[(1-oxonodecyl)oxy]stannane. May produce an allergic reaction.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Guidelines for safe handling used in the safety data sheet**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P280	Wear protective gloves/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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**Other important information about human health protection**

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

**Key to abbreviations and acronyms used in the safety data sheet**

Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
Aerosol	Aerosol
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC <sub>50</sub>	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
log K <sub>ow</sub>	Octanol-water partition coefficient
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
Press. Gas	Gases under pressure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Agreement on the transport of dangerous goods by rail
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
UN number	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative

## SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

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vPvM Very persistent and very mobile

#### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

#### Recommended restrictions of use

not available

#### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

#### The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version from Tuesday, 13 August 2024. Changes were made in sections 1, 2, 3, 8, 11, 12, 13 and 16.

#### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.