

TOP GASKET BLACK I, II

Creation date	13th July 2022	Version	4.0
Revision date			

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier**
Substance / mixture TOP GASKET BLACK I, II
Number 1 35139, 1 35140
UFI D7PQ-CVHQ-2306-3194
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Barrier (Sealant).
Mixture uses advised against
For professional use only.
- 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
- 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
Aquatic Chronic 3, H412

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

Most serious adverse physico-chemical effects

Pressurised container: May burst if heated.

Most serious adverse effects on human health and the environment

Harmful to aquatic life with long lasting effects.

- 2.2. Label elements**

Signal word

Warning

Hazard statements

H229

Pressurised container: May burst if heated.

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.

P273

Avoid release to the environment.

P410+P412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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2.3. Other hazards

Contact with moisture during curing process may produce acetic acid vapours. Mixture does contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

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

Mixture of substances and additives specified below.

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: 17865-07-5 EC: 241-816-9 Registration number: 01-2119966899-07	propyltriacetoxysilane	1,0-<2,5	Skin Corr. 1B, H314 EUH071	
CAS: 556-67-2 EC: 209-136-7 Registration number: 01-2119529238-36	octamethylcyclotetrasiloxane	0,01-<0,10	Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 1, H410 (M=10)	1, 2, 3

Notes

- 1 Substance of very high concern - SVHC.
- 2 Persistent, bioaccumulative and toxic or very persistent and very bioaccumulative
- 3 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. Use personal protective equipment as per Section 8.

If inhaled

Remove person to fresh air and keep comfortable for breathing.

If on skin

Immediately wash with water and soap and rinse thoroughly. In the event of an allergic reaction, seek medical attention.

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 continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

DO NOT INDUCE VOMITING! Rinse out the mouth with clean water. Never give anything by mouth to an unconscious person. Provide medical treatment.

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

not available

If on skin

not available

If in eyes

not available

If swallowed

not available

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

Symptomatic treatment.

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

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixturePressurised container: May burst if heated. In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. SiO₂, SiO_x, SO_x.**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Remove all ignition sources. Closed containers with the product near the fire should be cooled with water.

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

Provide sufficient ventilation. Pressurised container: May burst if heated. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not get in eyes, on skin, or on clothing.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13. After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Do not inhale mist/vapours/spray. Use personal protective equipment as per Section 8. Provide sufficient ventilation. Do not pierce or burn, even after use. Pressurised container: May burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Take off contaminated clothing. And wash it before reuse. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Protect from moisture. Keep only in original packaging. Do not store together with food, drink and animal feed.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Contact with moisture during curing process may produce acetic acid vapours.

EU - Commission Directive (EU) 2017/164:

Acetic acid

OEL 8 hours: 25 mg/m³

OEL 8 hours: 10 ppm

OEL 15 minutes: 50 mg/m³

OEL 15 minutes: 20 ppm

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8.2. Exposure controls

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. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles. EN166 - Personal Eye Protection Standard.

Skin protection

Hand protection: Protective gloves resistant to the product. EN ISO 374-1. Material of gloves: Nitrile rubber, NBR. Neoprene. Butyl rubber. Recommended thickness of the material: >0.7 mm. Penetration time of glove material: > 480 min. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: Under regular circumstances it is not necessary.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Mask with a filter in a poorly ventilated environment. Filter A/P2. EN143 - Respiratory protective devices - Gas filter(s) and combined filter(s).

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	acetic acid
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	>162 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	>21 mm ² /s at 40 °C
Solubility in water	insoluble
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1,22 g/cm ³
Form	cream / paste
data not available	

9.2. Other information

Evaporation rate	data not available
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SECTION 10: Stability and reactivity**10.1. Reactivity**

Contact with moisture during curing process may produce acetic acid vapours.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Pressurised container: May burst if heated.

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10.4. Conditions to avoid

Moisture. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Protect from sunlight.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses.

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.

Acute toxicity

Based on available data the classification criteria are not met.

octamethylcyclotetrasiloxane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Inhalation	LC ₅₀		36000 mg/m ³	4 hour	Rat	
Oral	LD ₅₀	OECD 401	>4800 mg/kg		Rat	
Dermal	LD ₅₀	OECD 402	>2400 mg/kg		Rat	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

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Route of exposure	Result	Exposure time	Species
Dermal	Not irritating	6 day	Rabbit

Serious eye damage/irritation

Based on available data the classification criteria are not met.

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Route of exposure	Result	Exposure time	Species
Eye	Not irritating	6 day	Rabbit

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.

octamethylcyclotetrasiloxane

Effect	Parameter	Value	Result	Species	Sex
			Toxic for reproduction		

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

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.

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SECTION 12: Ecological information
12.1. Toxicity
Acute toxicity

Harmful to aquatic life with long lasting effects.

octamethylcyclotetrasiloxane

Parameter	Value	Exposure time	Species	Environment
LC ₅₀	>1000 mg/l	96 hour	Fishes (Lepomis macrochirus)	
LC ₅₀	>500 mg/l	96 hour	Fishes (Branchydanio rerio)	
EC ₅₀	25.2 mg/l	24 hour	Crustaceans (Daphnia magna)	

propyltriacetoxysilane

Parameter	Value	Exposure time	Species	Environment
EC ₅₀	24 mg/l	72 hour	Algae and other aquatic plants (Pseudokirchneriella subcapitata)	
LC ₅₀	108.89 mg/l	96 hour	Fishes	
EC ₅₀	89.59 mg/l	48 hour	Crustaceans	

12.2. Persistence and degradability

not available

12.3. Bioaccumulative potential

octamethylcyclotetrasiloxane

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Kow	6.49				
BCF	12400				

propyltriacetoxysilane

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Kow	1.23				

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Mixture does not contain any substance that meets the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

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.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations
13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. 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. Uncured material must be disposed of as hazardous waste. Empty containers must not be punctured or incinerated because of the risk of an explosion.

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

16 05 04 gases in pressure containers (including halons) containing hazardous substances *

(*) - 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

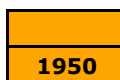
Additional information

Hazard identification No.

UN number

Classification code

Safety signs



5A

2.2



Road transport - ADR

Special provisions

190, 327, 625

Limited quantities

1L

Tunnel restriction code

(E)

Railway transport - RID

Special provisions

190, 327, 625

Limited quantities

1l

Marine transport - IMDG

EmS (emergency plan)

F-D, S-U

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 of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

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

octamethylcyclotetrasiloxane

Restriction	Conditions of restriction
70	1. Shall not be placed on the market in wash-off cosmetic products in a concentration equal to or greater than 0,1 % by weight of either substance, after 31 January 2020. 2. For the purposes of this entry, "wash-off cosmetic products" means cosmetic products as defined in Article 2(1)(a) of Regulation (EC) No 1223/2009 that, under normal conditions of use, are washed off with water after application.

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H314	Causes severe skin burns and eye damage.
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.
P273	Avoid release to the environment.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

A list of additional standard phrases used in the safety data sheet

EUH071	Corrosive to the respiratory tract.
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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

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
EU	European Union
EuPCS	European Product Categorisation System
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
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population

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log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	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
Aerosol	Aerosol
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Flam. Liq.	Flammable liquid
Repr.	Reproductive toxicity
Skin Corr.	Skin corrosion

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 20 September 2021. Changes were made in sections 1, 2, 3, 8, 9, 11, 12, 13, 15 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.