

**TOP GASKET BLACK**

Creation date 11th December 2020  
Revision date Version 1.1

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

- 1.1. Product identifier**  
Substance / mixture TOP GASKET BLACK  
Number 1 35139/1 35140  
UFI 5VY2-PDCV-2006-NSR1
- 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**  
112 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 Irrit. 2, H319

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**

Causes skin irritation. Causes serious eye irritation.

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

Warning

**TOP GASKET BLACK**

Creation date	11th December 2020	Version	1.1
Revision date			

**Hazard statements**

- H229 Pressurised container: May burst if heated.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

**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.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 IF ON SKIN: Wash with plenty of water and soap.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Supplemental information**

**2.3. Other hazards**

Contact with moisture during curing process may produce acetic acid vapours. Mixture does not 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: 29118-24-9 EC: 471-480-0 Registration number: 01-0000019758-54	HFO-1234ze	1-5	Press. Gas, H280	
CAS: 17689-77-9 EC: 241-677-4 Registration number: 01-2119881778-15	Triacetoxymethylsilane	1-5	Acute Tox. 4, H302 Skin Corr. 1B, H314 EUH014	
CAS: 4253-34-3 EC: 224-221-9 Registration number: 01-2119962266-32	Methylsilanetriyl-triacetate	1-5	Acute Tox. 4, H302 Skin Corr. 1B, H314 EUH014	

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. Ensure eye bath is to hand.

**If inhaled**

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety. Provide medical treatment.

**If on skin**

Remove contaminated clothes. Immediately wash with water and soap and rinse thoroughly.

**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. Provide medical treatment, specialized if possible.

**TOP GASKET BLACK**

Creation date	11th December 2020	Version	1.1
Revision date			

**If swallowed**

Rinse out the mouth with clean water. DO NOT INDUCE VOMITING! If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Provide medical treatment.

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

There may be irritation of the throat with a feeling of tightness in the chest.

**If on skin**

There may be irritation and redness at the site of contact.

**If in eyes**

There may be irritation and redness. The eyes may water profusely. When intruding eyes, it can cause damage.

**If swallowed**

There may be soreness and redness of the mouth and throat. Stomach pain, nausea.

**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**

Accommodate extinguishing components to the location of fire.

**Unsuitable extinguishing media**

not available

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

In the event of fire toxic gases may arise.

**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.

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

Pressurised container: May burst if heated. Use personal protective equipment for work. Keep unprotected persons away. Follow the instructions in the Sections 7 and 8.

**6.2. Environmental precautions**

Do not allow product to reach sewage system or any water course.

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

Place the spilled product in the properly closed containers and dispose of it according to the section 13.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

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

Ensure good ventilation/exhaustion at the workplace. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Prevent contact with skin and eyes. No smoking. Protect against direct sunlight. Do not pierce or burn, even after use. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in tightly closed containers in a cool, dry place intended for this purpose. Keep only in original container.

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

not available

**TOP GASKET BLACK**

Creation date 11th December 2020  
Revision date Version 1.1

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

The mixture contains no substances for which occupational exposure limits are set.

**DNEL**

HFO-1234ze

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	3902 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Inhalation	830 mg/m <sup>3</sup>	Systemic chronic effects	

**8.2. Exposure controls**

Follow the usual measures intended for health protection at work and especially for good ventilation. Ensure eye bath is to hand.

**Eye/face protection**

Tightly sealed goggles.

**Skin protection**

Hand protection: Protective gloves resistant to the product. Other protection: protective workwear.

**Respiratory protection**

Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

**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**

Appearance	paste
physical state	liquid at 20 °C
color	black
Odour	characteristic
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	data not available
Flash point	>150 °C
Evaporation rate	non-applicable
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	data not available
Vapour pressure	data not available
Vapour density	data not available
Relative density	1.01
Solubility(ies)	
solubility in water	insoluble
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	viscous
Explosive properties	data not available
Oxidising properties	data not available

**TOP GASKET BLACK**

Creation date	11th December 2020	Version	1.1
Revision date			

data not available

**9.2. Other information**

Density	data not available
ignition temperature	data not available
Max. VOC content in the product in its ready to use condition	23 g/l

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

The product is stable under normal conditions.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

The product is stable and no degradation occurs under normal use.

**10.4. Conditions to avoid**

Heat.

**10.5. Incompatible materials**

Protect against strong acids and oxidizing agents.

**10.6. Hazardous decomposition products**

Not developed under normal uses. In the event of fire toxic gases may arise.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

No toxicological data is available for the mixture.

**Acute toxicity**

Based on available data the classification criteria are not met.

HFO-1234ze

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Inhalation (vapor)	LC <sub>50</sub>	>207000 ppm	4 hour	Rat	

Methylsilanetriyl-triacetate

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	1540 mg/kg		Rat	
Dermal	LD <sub>50</sub>	0.794 ml/kg		Rabbit	

**Skin corrosion/irritation**

Causes skin irritation.

TOP GASKET BLACK

Route of exposure	Result	Time of exposure	Species
Dermal	Irritating		

**Serious eye damage/irritation**

Causes serious eye irritation.

TOP GASKET BLACK

Route of exposure	Result	Time of exposure	Species	Determining method
Eye	Irritating			Calculation of value

**TOP GASKET BLACK**

Creation date 11th December 2020  
Revision date Version 1.1

**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.

**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.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Acute toxicity**

Data for the mixture are not available.

HFO-1234ze

Parameter	Value	Time of exposure	Species	Environment
ErC <sub>50</sub>	>170 mg/l	72 hour	Algae	
EC <sub>50</sub>	>160 mg/l	48 hour	Daphnia (Daphnia magna)	
LC <sub>50</sub>	117 mg/l	96 hour	Fishes	

**12.2. Persistence and degradability**

Data not available.

**12.3. Bioaccumulative potential**

Not available.

**12.4. Mobility in soil**

Not available.

**12.5. Results of PBT and vPvB assessment**

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

**12.6. 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. 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.

**TOP GASKET BLACK**

Creation date	11th December 2020	Version	1.1
Revision date			

**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.

**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**

UN 1950

**14.2. UN proper shipping name**

AEROSOLS

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

2 Gases

**14.4. Packing group**

not available

**14.5. Environmental hazards**

No

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not available

**Additional information**

Hazard identification No.

UN number

Safety signs



2.2

**Road transport - ADR**

Excepted quantities

E0

Transport category

3

Tunnel restriction code

(E)

**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.

**15.2. Chemical safety assessment**

not available

**TOP GASKET BLACK**

Creation date	11th December 2020	Version	1.1
Revision date			

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

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.
H319	Causes serious eye irritation.

**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.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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**

EUH014	Reacts violently with water.
--------	------------------------------

**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
DNEL	Derived no-effect level
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
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC <sub>50</sub>	Concentration causing 50% blockade
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 <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
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships



**TOP GASKET BLACK**

Creation date	11th December 2020	Version	1.1
Revision date			

NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
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

Acute Tox.	Acute toxicity
Aerosol	Aerosol
Eye Irrit.	Eye irritation
Press. Gas	Gases under pressure
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation

**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.

**More information**

The version 1.1 replaces the SDS version from 13 October 2015. Changes were made in sections 2, 3, 8, 9, 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.