

SIL GASKET BLACK NEUTRAL

Creation date 30. August 2018
Revision date Version 1.0

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

- 1.1. Product identifier**
Substance / mixture SIL GASKET BLACK NEUTRAL
mixture
Number 1 35406
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
mixture's intended use Barrier (Sealant).
Disapproved uses of mixture 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 (ID) 25018205
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**
RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)
Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

SECTION 2: Hazards identification

- 2.1. Substance or mixture classification**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.
- Aerosol 3, H229
Skin Sens. 1, H317
- 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**
May cause an allergic skin reaction.

- 2.2. Label elements**
Hazard pictogram



Signal word
Warning

Hazardous substances
Butan-2-one O,O',O''-(methylsilylidyne)trioxime
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime

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Hazard statements

H229 Pressurised container: May burst if heated.

H317 May cause an allergic skin reaction.

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.

P261 Avoid breathing vapours.

P280 Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

2.3. Other hazards

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: 1317-65-3 EC: 207-439-9	Calcium carbonate	20-50		
CAS: 7631-86-9 EC: 231-545-4 Registration number: 01-2119379499-16-0134	Silica, amorphous	5-10		
CAS: 29118-24-9 EC: 471-480-0 Registration number: 01-0000019758-54	HFO-1234ze	1-5	Press. Gas, H280	
CAS: 22984-54-9 EC: 245-366-4 Registration number: 01-2119987100-43-0000	Butan-2-one O,O',O''-(methylsilyldiylne) trioxime	1-5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT RE 2, H373	
CAS: 2224-33-1 EC: 218-747-8 Registration number: 01-2119970537-27	Butan-2-one O,O',O''-(vinylsilyldiylne) trioxime	<1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319	

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.

Inhalation

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

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Skin contact

Remove contaminated clothes. Immediately wash with water and soap and rinse thoroughly. In the event of issues, find medical advice.

Eye contact

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. In the event of issues, find medical advice.

Ingestion

Rinse out the mouth with clean water. Provide medical treatment.

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

Exposure may cause coughing or wheezing.

Skin contact

May cause an allergic skin reaction. There may be irritation and redness at the site of contact.

Eye contact

There may be irritation and redness. The eyes may water profusely.

Ingestion

There may be soreness and redness of the mouth and throat.

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**

Use personal protective equipment for work. Keep unprotected persons away. Avoid the formation or spread of mists in the air.

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**

Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Ensure good ventilation/exhaustion at the workplace. Avoid the formation or spread of mists in the air.

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

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
Calcium carbonate (CAS: 1317-65-3)	WEL	8 hours	10 mg/m ³	Inhalable aerosol	Gestis
	WEL	Short-term	4 ppm	Respirable aerosol	
Silica, amorphous (CAS: 7631-86-9)	WEL	8 hours	6 mg/m ³	Inhalable dust	GBR
	WEL	8 hours	2,4 mg/m ³	Respirable dust	

DNEL

Butan-2-one O,O',O''-(methylsilylidyne)trioxime

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	0.988 mg/m ³	Systemic chronic effects	
Workers	Dermal	0.14 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	0.05 mg/kg bw/day	Systemic chronic effects	

Butan-2-one O,O',O''-(vinylsilylidyne)trioxime

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	1.03 mg/m ³	Systemic chronic effects	
Workers	Dermal	0.146 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	0.052 mg/kg bw/day	Systemic chronic effects	

HFO-1234ze

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

PNEC

Butan-2-one O,O',O''-(methylsilylidyne)trioxime

Route of exposure	Value	Determining method
Freshwater environment	0.26 mg/l	
Seawater	0.026 mg/l	
Freshwater sediment	1.02 mg/kg/24hour	
Sea sediments	0.102 mg/kg/24hour	
Water (occasional leak)	0.12 mg/l	

Butan-2-one O,O',O''-(vinylsilylidyne)trioxime

Route of exposure	Value	Determining method
Freshwater environment	0.26 mg/l	
Seawater	0.026 mg/l	

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Butan-2-one O,O',O''-(vinylsilylidyne)trioxime

Route of exposure	Value	Determining method
Freshwater sediment	1.02 mg/kg	
Sea sediments	0.102 mg/kg/24hour	
Water (occasional leak)	0.12 mg/l	
Microorganisms in wastewater treatment plants	10 mg/l	
Soil (agricultural)	0.05 mg/kg/24hour	

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. Use a mask with anti-dust filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

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	acetic acid-like
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	data not available
Solubility(ies)	
solubility in water	insoluble
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	>400 °C
Decomposition temperature	data not available
Viscosity	viscous
Explosive properties	data not available
Oxidising properties	data not available
data not available	

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9.2. Other information

Density	data not available
ignition temperature	data not available
content of organic solvents (VOC)	0.03 %

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

When used in the standard way, there is not any dangerous reaction with other substances.

10.4. Conditions to avoid

Protect against flames, sparks, overheating. Protect from sunlight. Remove all ignition sources.

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.

Butan-2-one O,O',O''-(vinylsilylidyne)trioxime

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Dermal	LD ₅₀	>2000 mg/kg			
Oral	LD ₅₀	>2000 mg/kg			

HFO-1234ze

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

Silica, amorphous

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Dermal	LD ₅₀	>2000 mg/kg		Rat	
Oral	LD ₅₀	>1000 mg/kg		Rat	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

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Respiratory or skin sensitisation

May cause an allergic skin reaction. Based on available data the classification criteria are not met.

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Route of exposure	Result	Time of exposure	Species	Sex
Skin	Sensitizing			

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.

Butan-2-one O,O',O''-(methylsilyldiylidene)trioxime

Parameter	Value	Time of exposure	Species	Environment
LC ₅₀	>100 mg/l	96 hour	Fishes (Oryzias latipes)	

Butan-2-one O,O',O''-(vinylsilyldiylidene)trioxime

Parameter	Value	Time of exposure	Species	Environment
LC ₅₀	>100 mg/l	96 hour	Fishes	
NOEC	>100 mg/l		Fishes	

HFO-1234ze

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

12.2. Persistence and degradability

Data not available.

12.3. Bioaccumulative potential

No bioaccumulation potential.

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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.

Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) 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 dangerous substances

Packaging waste type code

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

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

	(Kemler Code)
1950	

2.2

**Road transport ADR**

Transport category

3

Tunnel restriction code

(E)

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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. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). Decree No. 80/2014 Coll., amending the Decree No. 194/2001 Coll., laying down technical requirements for aerosol sprays as amended. Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended.

15.2. Chemical safety assessment

not available

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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P261	Avoid breathing vapours.

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 ₅₀	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 ₅₀	Concentration causing 50% blockade

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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
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
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
Aerosol	Flammable aerosol
Eye Irrit.	Eye irritation
Press. Gas	Gases under pressure
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure

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. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

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.