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1. Section 1. Identification of the substance/mixture and of the company/undertaking:

- 1.1. Product identifier:
Trade name: **TOP GASKET GREY I/II**
Product code: **1 35141; 1 35142**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:
Uses of the mixture: Sealant.
For professional and industrial use only.
Uses advised against: Not known.
- 1.3. Details of the supplier of the safety data sheet:
Identification of manufacturer/Supplier:
RETECH, s.r.o.
Vackova 1541/4
150 00 Praha 5 - Stodůlky
Telephone number/Fax: +420 327 596 128, +420 327 596 428
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)
Toxikologické informační středisko (Toxicology information centre),
Na bojišti 1, 128 08 PRAHA 2, Czech Republic
Telephone number: +420 224 919 293, +420 224 915 402 (24 hours a day)

2. Section 2. Hazard identification:

- 2.1. Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008 [CLP]:
Aerosol 3 H229 Pressurised container: May burst if heated.
Skin Sens. 1 H317 May cause an allergic skin reaction.

- 2.2. Label elements:
Labelling according to Regulation (EC) No 1272/2008 [CLP]:



Signal Word: Warning

Hazard Statements:

H229 Pressurised container: May burst if heated.
H317 May cause an allergic skin reaction.

Precautionary Statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
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.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulation.

Contained dangerous substances:

22984-54-9 Butan-2-one O,O',O''-(methylsilylidyne)trioxime;
2224-33-1 butan-2-one O,O',O''-(vinylsilylidyne)trioxime

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- 2.3. Other hazards:
Results of PBT and vPvB assessment:
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

3. Section 3. Composition/information on ingredients:

- 3.2. Mixtures:
Description of the mixture: Mixture of active ingredients

Hazardous ingredients:

CAS: 811-97-2	1,1,1,2-Tetrafluoroethane	1 - 5 %
EINECS: 212-377-0	Substance with a Community workplace exposure limit	
CAS: 22984-54-9	Butan-2-one O,O',O''-(methylsilylydyne)trioxime	1 - 5 %
EINECS: 245-366-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 2224-33-1	Butan-2-one O,O',O''-(vinylsilylydyne)trioxime	< 1 %
EINECS: 218-747-8	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	

For full text of H-statements: see SECTION 16.

4. Section 4. First aid measures:

- 4.1. Description of first aid measures:
General notes: When in doubt or if symptoms are observed, get medical advice.
After inhalation: Move affected person to fresh air ensuring one's own safety whilst doing so.
Consult a doctor.
After skin contact: Take off immediately all contaminated clothing and footwear.
Wash immediately with plenty of water and soap and rinse thoroughly.
Consult a doctor.
After eye contact: Rinse opened eyes cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.
Consult a doctor.
After swallowing: Rinse mouth with plenty of water.
Consult a doctor.
- 4.2. Most important symptoms and effects, both acute and delayed:
See section 11.
- 4.3. Indication of any immediate medical attention and special treatment needed:
No further relevant information available.

5. Section 5. Fire fighting measures:

- 5.1. Extinguishing media:
Suitable extinguishing agents: Use fire fighting measures that suit the environment.
For safety reasons unsuitable extinguishing agents:
No further relevant information available.
- 5.2. Special hazards arising from the substance or mixture:
In combustion emits toxic fumes.
- 5.3. Advice for firefighters:
Wear protective clothing and self-contained breathing apparatus.
Cool endangered receptacles with water spray.

6. Section 6. Accidental release measures:

- 6.1. Personal precautions, protective equipment and emergency procedures:
Wear protective equipment see Section 8.
Keep unprotected persons away.
Turn leaking containers leak-side up to prevent the escape of liquid.
- 6.2. Environmental precautions:
Do not discharge into drains or rivers.
Contain the spillage using bunding.
Inform respective authorities in case of seepage into water course or sewage system.

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- 6.3. Methods and material for containment and cleaning up:
Absorb into dry earth or sand.
Transfer to a closable, labelled salvage container for disposal by an appropriate method.
Dispose contaminated material as waste according to Section 13.
- 6.4. Reference to other sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. Section 7. Handling and storage:

- 7.1. Precautions for safe handling:
Protective measures: Wear protective equipment see Section 8.
Avoid contact with skin and eyes.
Ensure good ventilation/exhaustion at the workplace.
Avoid the formation or spread of mists in the air.
- Measures to prevent fire: 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.
- 7.2. Conditions for safe storage, including any incompatibilities:
Requirements for storage rooms and vessels:
Store in a cool, well-ventilated place.
Keep receptacle tightly sealed.
Store only in the original receptacle.
- Technical measures and storage conditions:
Store in a cool, well-ventilated place.
- Further information on storage conditions:
No further relevant information available.
- 7.3. Specific end use(s): No further relevant information available.

8. Section 8. Exposure controls/personal protection:

- 8.1. Control parameters:
Components with limit values that require monitoring at the workplace:
WEL (United Kingdom): EH40/2005

CAS	Substance	Long-term (8-hr TWA ref. period)		Short-term (15 minute ref. period)		Comments
		ppm	mg/m ³	ppm	mg/m ³	
811-97-2	1,1,1,2-Tetrafluoroethane	1000	4240			

OEL (EU): 2000/39/EG, 2006/15/EG, 2009/161/EG

Contains no substances with occupational exposure limit values.

Additional information: The lists that were valid during the compilation were as basis.

- 8.2. Exposure controls:
Measures to prevent exposure: Ensure good ventilation/exhaustion at the workplace.
Ensure eye bath is to hand.
- General protective measures: The usual precautionary measures should be adhered to general rules for handling chemicals.
- Personal protection equipment:
Breathing equipment: Self-contained breathing apparatus must be available in case of emergency.
Eye protection: Safety goggles.
Protection of hands: Protective gloves
Protection of skin: Impermeable protective clothing.

9. Section 9. Physical and chemical properties:

- 9.1. Information on basic physical and chemical properties:
Form: Paste.
Colour: Grey.

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Odour:	Characteristic.
Odour threshold:	Not determined.
Value pH at 20 °C:	Not determined.
Melting point/freezing point:	Not determined.
Initial boiling point/boiling range:	Not determined.
Flash point:	> 150 °C
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not applicable
Explosive properties:	Not determined.
Explosive limits:	
– lower:	Not determined.
– upper:	Not determined.
Vapour pressure at 20°C:	Not determined.
Vapour density at 20 °C:	Not determined.
Density at 20°C:	Not determined.
Relative density:	1.01
Solubility in/miscibility with:	
– water	Not miscible.
Partition coefficient (n-octanol/water):	Not determined.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-igniting:	> 400 °C
Viscosity:	Viscous
Oxidising properties:	Not determined.
9.2. Other information:	
VOC:	0.03 %

10. Section 10. Stability and reactivity:

10.1. Reactivity:	Stable under recommended transport or storage conditions.
10.2. Chemical stability:	Stable under normal conditions.
10.3. Possibility of hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
10.4. Conditions to avoid:	Heat.
10.5. Incompatible materials:	Strong acids, strong oxidising agents.
10.6. Hazardous decomposition products:	In combustion emits toxic fumes.

11. Section 11. Toxicological information:

11.1. Information on toxicological effects:

Acute toxicity: Based on available data, the classification criteria are not met.

Relevant hazards for substance:

Effect	Route	Basis
Respiratory/skin sensitisation	Dermal	Hazardous: calculated

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.
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
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.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

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Other information:

- After inhalation: Exposure may cause coughing or wheezing.
- After skin contact: There may be irritation and redness at the site of contact.
- After eye contact: There may be irritation and redness. The eyes may water profusely.
- After swallowing: There may be soreness and redness of the mouth and throat.
- Delayed/immediate effects: Delayed effects can be expected after long-term exposure.


12. Section 12. Ecological information:

- 12.1. Toxicity:
Aquatic toxicity: No further relevant information available.
- 12.2. Persistence and degradability: Biodegradable.
- 12.3. Bioaccumulative potential: No bioaccumulation potential.
- 12.4. Mobility in soil: Readily absorbed into soil.
- 12.5. Results of PBT and vPvB assessment:
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
- 12.6. Other adverse effects: Negligible ecotoxicity.

13. Section 13. Disposal considerations:

- 13.1. Waste treatment methods:
Product disposal: Transfer to a suitable container and arrange for collection by specialised disposal company.
Do not allow product to reach sewage system.
European Waste Catalogue:
08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances
(*hazardous waste)
- Packagings disposal: Disposal must be made according to official regulations.
European Waste Catalogue:
15 01 11* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers
(*hazardous waste)
- Other disposal recommendations:
Disposal must be made according to official regulations.
The final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

14. Section 14. Transport information:

- 14.1. UN number:
ADR, IMDG, IATA UN 1950
- 14.2. UN proper shipping name:

ADR 1950 AEROSOLS
IMDG AEROSOLS
IATA AEROSOLS
- 14.3. Transport hazard class(es):
ADR 2
IMDG 2
IATA 2
- 14.4. Packing group:
ADR, IMDG, IATA Void
- 14.5. Environmental hazards:
Environmentally hazardous: No
- 14.6. Special precautions for user: Warning: gases

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14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:

Not applicable

Transport/ Additional information:

Transport category: 3

Tunnel restriction code E

UN "Model Regulation": UN 1950 AEROSOLS, 2

15. Section 15. Regulatory information:

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

Used legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended (CLP)

Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended
Commission Decision 2000/532/EC establishing a list of wastes, as amended

Council Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment, as amended

Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values

Commission Directive 2009/161/EU establishing a third list of indicative occupational exposure limit values

Directive 2004/42/CE of the European Parliament and of the Council on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC, as amended

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Section 16. Other information:

Relevant H-statements (Section 3):

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative, Toxic

STOT: Specific target organ toxicity

TWA Time weighted average

VOC: Volatile Organic Compounds

vPvB: Very Persistent, Very Bioaccumulative

WEL: Workplace exposure limits

Aerosol 3: aerosol, category 3

Eye Irrit. 2: Serious eye irritation, category 2

Skin Irrit. 2: Skin irritation, category 2

Skin. Sens. 1: Skin sensitization, category 1

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

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These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

***Compared to the last version the data has been changed.**