

Date of issue: 02/09/2015	Trade name:	Page: 1/7
Reviewed on:	TOP GASKET BLACK I/II	Version: 1.0

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

- 1.1. Product identifier:
Trade name: **TOP GASKET BLACK I/II**
Product code: **1 35139; 1 35140**
- 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 Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

- 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.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary Statements:

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.
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.
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.
P501 Dispose of contents/container in accordance with national regulation.

- 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.

Date of issue: 02/09/2015	Trade name:	Page: 2/7
Reviewed on:	TOP GASKET BLACK I/II	Version: 1.0

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 - 10 %
EINECS: 212-377-0	Substance with a Community workplace exposure limit.	
CAS: 17689-77-9	Triacetoxymethylsilane	1 - 10 %
EINECS: 241-677-4	Skin Corr. 1B, H314; Acute Tox. 4, H302	
CAS: 4253-34-3	Methylsilanetriyl-triacetate	1 - 10 %
EINECS: 224-221-9	Skin Corr. 1B, H314; Acute Tox. 4, H302	

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: Wash immediately with plenty of water and soap and rinse thoroughly.
 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.

4.2. Most important symptoms and effects, both acute and delayed:

After inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur. Acetic acid produced during cure may irritate eyes, nose and throat. When heated to temperatures exceeding 300 °F (150 °C) in the presence of air, silicones may form formaldehyde vapours.
 After skin contact: There may be irritation and redness at the site of contact.
 After eye contact: There may be irritation and redness.
 After swallowing: There may be soreness and redness of the mouth and throat.
 Delayed/immediate effects: Immediate effects can be expected after short-term exposure.

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.

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.
 Do not create dust.

6.2. Environmental precautions:

Do not discharge into drains or rivers.
 Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up:

Transfer to a closable, labelled salvage container for disposal by an appropriate

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 02/09/2015	Trade name:	Page: 3/7
Reviewed on:	TOP GASKET BLACK I/II	Version: 1.0

- 6.4. Reference to other sections:
- method.
 - Dispose contaminated material as waste according to Section 13.
 - 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.
Ensure good ventilation/exhaustion at the workplace.
Do not handle in a confined space.
Avoid the formation or spread of mists in the air.
Avoid contact with skin and eyes.
- 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.
- General protective measures: The usual precautionary measures should be adhered to general rules for handling chemicals.
Ensure eye bath is to hand.
- Personal protection equipment:
- Breathing equipment: Respiratory protection usually not required with adequate ventilation.
Self-contained breathing apparatus must be available in case of emergency.
- Eye protection: Safety goggles.
- Protection of hands: Protective gloves.
- Protection of skin: Protective clothing.

9. Section 9. Physical and chemical properties:

- 9.1. Information on basic physical and chemical properties:
- Form: Paste
- Colour: Black
- Odour: Acetic acid like

Date of issue: 02/09/2015	Trade name:	Page: 4/7
Reviewed on:	TOP GASKET BLACK I/II	Version: 1.0

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:	Not determined.
Evaporation rate:	Not determined.
Flammability (solid, gas):	Not determined.
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:	Not determined.
Viscosity:	Highly viscous.
Oxidising properties:	Not determined.
9.2. Other information:	No further relevant information available.

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:

4253-34-3 Methylsilanetriyl-triacetate

Oral	LD50	Rat	1540 mg/kg
Dermal	LD50	Rabbit	794 µg/kg

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin

sensitization: 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.

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.

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

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 02/09/2015	Trade name:	Page: 5/7
Reviewed on:	TOP GASKET BLACK I/II	Version: 1.0

Drowsiness or mental confusion may occur.
Acetic acid produced during cure may irritate eyes, nose and throat.
When heated to temperatures exceeding 300 °F (150 °C) in the presence of air, silicones may form formaldehyde vapours.

After skin contact: There may be irritation and redness at the site of contact.
After eye contact: There may be irritation and redness.
After swallowing: There may be soreness and redness of the mouth and throat.
Delayed/immediate effects: Immediate effects can be expected after short-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

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 02/09/2015	Trade name:	Page: 6/7
Reviewed on:	TOP GASKET BLACK I/II	Version: 1.0

- 14.5. Environmental hazards:
Environmentally hazardous: No
- 14.6. Special precautions for user: No special precautions.
Danger Code (Kemler): -
EMS Number: -
- 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):

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

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
LD50: Median dose lethal to 50 % of a test population
OEL: Occupational Exposure Limit
PBT: Persistent, Bioaccumulative, Toxic
STOT: Specific target organ toxicity
TWA: Time weighted average
vPvB: Very Persistent, Very Bioaccumulative
WEL: Workplace exposure limits
Aerosol 3: aerosol, category 3
Acute Tox. 4: Acute toxicity, category 4
Eye Irrit. 2: Serious eye irritation, category 2

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 02/09/2015	Trade name:	Page: 7/7
Reviewed on:	TOP GASKET BLACK I/II	Version: 1.0

Skin Corr. 1: Skin corrosion, category 1
Skin Irrit. 2: Skin irritation, category 2

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. 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.**