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Reviewed on:	<b>GASKET STRIPPER</b>	Version: 1.0

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

- 1.1. Product identifier : **GASKET STRIPPER - R 34402 (spray)**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against: Remover of sealing and carbon sediments.
- 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/Fax: +420 327 596 128, +420 327 596 428  
Information: [info@retech.cz](mailto:info@retech.cz)
- 1.4. Emergency telephone number:  
RETECH Suchdol 212, Suchdol u Kutné Hory  
Tel.+420 327 596 128 (7.30-16.00 hour)  
Toxicology information number, Na bojišti 1, 128 08 PRAHA 2  
Tel. +420 224 919 293, +420 224 915 402 (24 hours a day)

**2. Section 2. Hazard identification:**

The product is labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.  
The classification is in line with current EC lists, It is expanded, however, by information from technical literature and by information furnished by supplier companies.

2.1. Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:

Flam. Aerosol 1	H222 Extremely flammable aerosol.
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure inhalation.
Repr 2	H361d Suspected of damaging unborn child.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
STOT SE 3	H336 May cause drowsiness or dizziness
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

F+ Extremely flammable	R 12 Extremely flammable.
Xn-Harmful	R 48/20 Harmful: danger of very serious damage to health by prolonged exposure through inhalation.
	R 63 Possible risk of harm to the unborn child.
Xi-Irritant	R 36/38 Irritating to eyes and skin.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R 67 Vapours may cause drowsiness and dizziness.

2.2. Label elements:

Labelling according to Regulation (EC) No 1272/2008:

GHS02



DANGER

GHS08



DANGER

GHS07



WARNING

H222 Extremely flammable aerosol.  
H373 May cause damage to organs through prolonged or repeated exposure inhalation.  
H361d Suspected of damaging unborn child.

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H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness  
H412 Harmful to aquatic life with long lasting effects.

Labelling according to Directive 1999/45/EC:



Extremely flammable



Harmful

R 12 Extremely flammable.  
R 48/20 Harmful: danger of very serious damage to health by prolonged exposure through inhalation.  
R 36/38 Irritating to eyes and skin.  
R 63 Possible risk of harm to the unborn child.  
R 67 Vapours may cause drowsiness and dizziness.  
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Special labeling of certain preparations:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition.- No smoking.  
Keep out of the reach of children.

2.3. Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable

vPvB: Not applicable

Buildup of explosive mixtures possible without sufficient ventilation.

### 3. Section 3. Composition/information on ingredients:

3.2. Mixtures:

Description: The active ingredient in propellants

Dangerous components:

CAS: 78-93-3 EINECS: 201-159-0	Butanone F R 11; Xi R36; R66; R67 GHS02 Flam. Liq. 2, H225; GHS07 Eye Irrit. 2, H319; STOT SE 3, H336; EUH066	10-<25%
CAS: 646-06-0 EINECS: 211-463-5	1,3 Dioxolane F R11 GHS02 Flam.Liq.2, H225	10-<25%
CAS: 74-98-6 EINECS: 200-827-9	Propane F+ R12 GHS02 Flam. Gas 1, H220; GHS04 Press. Gas, H280	10-<25%
CAS: 106-97-8 EINECS: 203-448-7	Butane (containing <0,1% butadiene (203-450-8)) F+ R12 GHS02 Flam. Gas 1, H220; GHS04 Press. Gas, H280	10-<25%
CAS: 108-88-3 EINECS: 203-625-9	Toluene F R11; Xi R38; Xn R48/20-R63-R65; R67 GHS02 Flam. Liq. 2, H225; GHS08 Repr. 2, H361d; Asp. Tox. 1, H304; STOT RE 2, H373; GHS07 Skin Irrit. 2, H315; STOT SE 3, H336	2.5-<10%
CAS: 64742-49-0	Naphtha (petroleum); Hydrotreated light (contains less than 0.1%	2.5-<10%

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EINECS: 265-151-9	benzene) F R11; Xi R38; N51/53; Xn R65; R67 GHS02 Flam. Liq. 2, H225; GHS08 Asp. Tox. 1, H304; GHS09 Aquatic Chronic 2, H411; GHS07 Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 872-50-4 EINECS: 212-828-1	N-methyl-2-pyrrolidone T R 61; Xi R36/37/38 GHS08 Repr. 1B H360D; GHS07 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<5

Additional information: For the wording of the listed risk phrases refer to section 16.

**4. Section 4. First aid measures:**

- 4.1. After inhalation: Supply and fresh air; consult doctor in case of symptoms.  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Remove soaked clothing; Wash with water and soap.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- After swallowing: Do not induce vomiting, rinse mouth, drink large amounts of water, call for medical help immediately.
- Most important symptoms and effects, both acute and delayed: No further relevant information available.  
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: Carbon dioxide (CO<sub>2</sub>), fire-extinguishing powder, water haze or alcohol resistant foam.  
For safety reasons unsuitable extinguishing agents: Water with full jet.
- 5.2. Special hazards arising from the substance or mixture:  
No further relevant information available.
- 5.3. Advice for firefighters: Wear protective equipment/clothing when fighting fires.  
Aerosols may explode when overheated. Cool the container with water.

**6. Section 6. ccidental release measures:**

- 6.1. Personal precautions, protective equipment and emergency procedures:  
Wear protective equipment see Section 8. Keep unprotected person away. Ensure adequate ventilation, keep away from ignition sources.
- 6.2. Environmental precautions:  
Do not allow to enter drainage system, surface or ground water.  
Inform respective authorities in case product reaches water or sewage system.
- 6.3. Methods and material for containment and cleaning up:  
Ensure adequate ventilation.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to see 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. Information for safe handling: Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: Beware: Container is pressurized. Keep away from direct sun exposure and temperatures over 50°C.  
Do not open by force or throw into fire even after

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- 7.2. Conditions for safe handling, including any incompatibilities:  
 Requirements to be met by storerooms and containers: use.  
 Do not spray on flames or red-hot objects.  
 Keep ignition sources away - Do not smoke.  
 Protect against electrostatic charges.
- Information about storage in one common storage facility: Store in cool location.  
 Observe official regulations on storing packaging with pressurized containers.
- Further information about storage conditions: Observe official regulations on storing packaging with pressurized containers.  
 Store in cool, dry conditions in well sealed receptacles.  
 Protect from heat and direct sunlight.
- 7.3. Specific end use(s): No further relevant information available.

**8. Section 8. Exposure controls and personal protection:**

- 8.1 Control parameters:  
 Components with limit values that require monitoring at the workplace:  
 106-97-8 butane (containing < butadiene (203-450-8))  
 WEL Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm  
 Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm  
 Carc (if more than 0.1% of buta-1.3-diene)
- 74-98-6 Propane  
 WEL Short-term value: 3600 mg/cm<sup>3</sup>, 2000 ppm  
 Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm
- 872-50-4 N-methyl-2-pyrrolidone  
 WEL Short-term value: 309 mg/m<sup>3</sup>, 75 ppm  
 Long-term value: 103 mg/m<sup>3</sup>, 25 ppm
- 108-88-3 toluene D-Dermal  
 WEL Short-term value: 284 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 191 mg/m<sup>3</sup>, 50 ppm
- 78-93-3 Butanone  
 WEL Short-term value: 900 mg/cm<sup>3</sup>, 300 ppm  
 Long-term value: 600 mg/cm<sup>3</sup>, 200 ppm
- Additional information: The lists that were valid during the compilation were used as basis.
- 8.2 Exposure controls:  
 Eye protection: Tightly sealed goggles.  
 Breathing: Use suitable respiratory protective device in case of insufficient ventilation. In case of brief exposure or low pollution use respiratory filter device-filter AX/P2. In case of intensive or longer exposure use self-contained respiratory protective device.  
 equipment:  
 Protection of hands: Solvent resistant gloves.  
 The glove material has to be impermeable and resistant to the produkt.  
 Due to missing tests no recommendation to the glove material can be given for the product ( chemical mixture)  
 Selection of glove material on consideration of the penetration times, rates of diffusion and the degradation  
 Material of gloves:  
 The selection of the suitable gloves does not only depend on the material, but also on further marks of duality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.  
 Penetration time of glove material:  
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- 8.3. Protection of skin: Protective working clothes.  
 General protective and hygienic measures: Keep away from foodstuffs, beverages and food.



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Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rab)
Inhalative	LC50/4h	5320 mg/l (mus)
64742-49-0 Naphta (petroleum), hydrotreated light		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Irritation: on the skin:		Irritant to skin and mucous membranes.
on the eye:		Irritating effect.
Corrosivity:		Not corrosive.
Sensitization:		No sensitizing effect known.
Repeated dose toxicity:		No further relevant information available.
Carcinogenicity:		No further relevant information available.
Mutagenicity:		No further relevant information available.
Toxicity for reproduction:		No further relevant information available.
Other information:		No data.

**12. Section 12. Ecological information:**

Water hazard class 2 (Self-assessment): hazardous for water.  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Harmful to fish.  
Harmful to aquatic organisms.

- 12.1. Toxicity: No further relevant information available.  
12.2. Persistence and degradability: No further relevant information available.  
12.3. Bioaccumulative potential: No further relevant information available.  
12.4. Mobility in soil: No further relevant information available.  
12.5. Results of PBT and vPvB assessment:  
PBT: Not applicable  
vPvB: Not applicable  
12.6. Other adverse effects: No further relevant information available.

**13. Section 13. Disposal considerations:**

- 13.1 Waste treatment methods:  
Product: Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Uncleaned packagings: Disposal must be made according to official regulations.

**14. Section 14. Transport information:**

- 14.1. Land transport:  
ADR/RID-GGVS/E class: 2  
Number/Letter: 5F  
Number UN: 1950  
Danger code (Kemler): 23  
Description of goods: Aerosols  
14.2. Maritime transport:  
IMDG-class: 2.1  
Page: -  
Number UN: 1950  
Packaging group: -  
EMS-group: F-D,S-U  
Marine pollutant: No  
Proper shipping name: Aerosols  
14.3. Air transport:  
ICAO / IATA -class: 2.1  
UN/ID number: 1950  
Packaging group: -

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Proper shipping name: Aerosols, flammable, n.o.s  
UN "Model Regulation": UN1950; AEROSOLS; 2.1  
Special precautions for users - Warning: Gases  
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

**15. Section 15. Regulatory information:**

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

Labelling according to law line:

The product has been labeled in accordance with EC Directives / relevant national laws.

Danger of determining components and mark to labelling:

108-88-3 Toluene, 74-98-6 Propane, 106-97-8 Butane

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after burn. Do not spray on a naked flame or any incandescent material.

Labelling hazardousness:



F+ - Extremely flammable



Xn - Harmful

Numbers and word reading associated hazard R-sentences :

R 12 Extremely flammable.

R 48/20 Harmful: danger of very serious damage to health by prolonged exposure through inhalation.

R 36/38 Irritating to eyes and skin.

R 63 Possible risk of harm to the unborn child.

R 67 Vapours may cause drowsiness and dizziness.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Numbers and word reading associated security S-sentences:

S 2 Keep out of reach of children.

S 16 Keep away from sources of ignition – No smoking.

S 23 Do not breathe fumes / aerosol.

S 24/25 Avoid contact with skin and eyes.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 46 If swallowed, seek medical advice immediately and show this container or label.

S 51 Use only in well-ventilated areas.

S 56 Dispose of this material and its container at hazardous or special waste collection point.

On the packaging there is not included info in accordance with European Regulation No 1999/45/EC (chapter 2.5.).

Density: 0.727 g/cm<sup>3</sup>

VOC: 581.6 g/l

National regulations:

Danish MAL Code 5-3

Used legislation:

European Regulation (EC) No 1907/2006 – REACH.

Commission Regulation (EU) No 453/2010.

European Regulation No 67/548/EEC and 1999/45/EC.

Commission Regulation (EC) No 1272/2006 – CLP.

Commission Regulation (EC) No 790/2009.

Regulation (EC) No 648/2004 (detergents).

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

**16. Section 16. Other information:**

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.

Relative R+H phrases:

- R 11 Highly flammable.
- R 12 Extremely flammable.
- R 36 Irritating to eyes.
- R 38 Irritating to skin.
- R 36/37/38 Irritating to eyes, respiratory system and skin.
- R 48/20 Harmful: danger of very serious damage to health by prolonged exposure through inhalation.
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 61 May cause harm to the unborn child.
- R 63 Possible risk of harm to the unborn child.
- R 65 Harmful: May cause lung damage if swallowed.
- R 66 Repeated exposure may cause skin dryness or cracking.
- R 67 Vapours may cause drowsiness and dizziness.
- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H360D May damage unborn child.
- H361d Suspected of damaging unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure inhalation.
- H411 Toxic to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

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)
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
- WEL- Workplace exposure limits
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent

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