

Date of issue: 14.04.2011	Trade name:	Page: 1/7
Reviewed on:	SILICONE GREASE	Version.1.0

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

- 1.1. Product identifier : **SILICONE GREASE – R 34400 (spray)**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against: 100% silicon lubricant
- 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
- 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 SE 3 H336 May cause drowsiness or dizziness.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC:
F+ Extremely flammable R12 Extremely flammable.
N-Dangerous for the environment R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 Vapours may cause drowsiness and dizziness.

2.2. Label elements:

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

GHS02



DANGER

GHS07



WARNING

GHS09



H222 Extremely flammable aerosol.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Labelling according to Directive 1999/45/EC:

F+



Extremely flammable

N



Dangerous for the Environment

Date of issue: 14.04.2011	Trade name:	Page: 2/7
Reviewed on:	SILICONE GREASE	Version.1.0

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 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: 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	50-100%
CAS: 540-84-1 EINECS: 208-759-1	2,2,4-trimethylpentane F R11; Xi R38; N R50/53; Xn R65; R67 GHS02 Flam. Liq. 2, H225; GHS08 Asp. Tox. 1, H304; GHS09 Aquatic Chronic 1, H410; GHS07 Skin Irrit. 2, H315; STOT SE 3, H336	10-<25%
CAS: 74-98-6 EINECS: 200-827-9	Propane F+ R12 GHS02 Flam. Gas 1, H220; GHS04 Press. Gas, H280	2,5-<10%
CAS: 142-82-5 EINECS: 205-563-8	Heptane F R11; Xi R38; N R50/53; Xn R65; R67 GHS02 Flam. Liq. 2, H225; GHS08 Asp. Tox. 1, H304; GHS09 Aquatic Acute 1, H410, Aquatic Chronic 1, H411; GHS07 Skin Irrit. 2, H315; STOT SE 3, H336	0,1-<1%

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

4. Section 4. First aid measures:

4.1. Description of first aid measures:

After inhalation: Supply fresh air; consult doctor in case of symptoms. For breathing difficulties oxygen may be necessary.

After skin contact: Remove soaked clothing. Wash with water and soap; consult doctor in case of symptoms.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing: Rinse mouth and give large amounts of water to people not unconscious. Do not induce vomiting; Consult a physician.

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: CO₂, extinguishing powder or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water jet.

Date of issue: 14.04.2011	Trade name:	Page: 3/7
Reviewed on:	SILICONE GREASE	Version.1.0

- 5.2. Special hazards arising from the substance or mixture:
In case of fire CO may be possible.
- 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. Accidental release measures:

- 6.1. Personal precautions, protective equipment and emergency procedures:
Wear protective equipment see Section 8.2. Keep unprotected person away. Ensure adequate ventilation. Keep away from ignition sources.
- 6.2. Environmental precautions:
Do not allow product to reach sewage system or water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- 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).
Ensure adequate ventilation.
- 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 use.
Do not spray on flames or red-hot objects.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- 7.2. Conditions for safe handling, including any incompatibilities:
Requirements to be met by storerooms and containers: Store in cool location.
Observe official regulations on storing packaging with pressurized containers.
- Information about storage in one common storage facility: Observe official regulations on storing packaging with pressurized containers.
- Further information about storage conditions: Store in cool, dry conditions.
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
WEL Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm
74-98-6 propane
WEL Short-term value: 3600 mg/m³, 2000 ppm
Long-term value: 1800 mg/m³, 1000 ppm
142-82-2 Heptane
WEL Long-term value: 2085 mg/cm³, 500 ppm
Additional information:
The lists that were valid during the compilation were as basis.

Date of issue: 14.04.2011	Trade name:	Page: 4/7
Reviewed on:	SILICONE GREASE	Version.1.0

8.2	Exposure controls:	
	Eye protection:	Tightly sealed goggles.
	Breathing equipment:	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure. use self-contained respiratory protective device. Use suitable respiratory protective device in case of insufficient ventilation. Filter AX/P2.
	Protection of hands:	Solvent resistant gloves. Material of gloves: Nitrile rubber, NBR The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of glove material on consideration of the penetration times, rates of diffusion and the degradation.
	Protection of skin:	Protective working clothes.
8.3.	General protective and hygienic measures:	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hand before breaks and at the end of work. Avoid contact with eyes and skin.

9. Section 9. Physical and chemical properties:

9.1.	Information on basic physical and chemical properties:	
	Appearance:	
	form:	Aerosol
	colour:	Colourless
	Odour threshold:	Characteristic
	Value pH:	Not determined
	Melting point/freezing point:	Not determined
	Initial boiling point/boiling range:	-44°C
	Flash point:	-97°C
	Evaporation rate:	Not applicable
	Flammability (solid,gas):	365°C
	Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
	Upper/lower flammability or explosive limits:	
	Explosion limits: lower (% Vol):	1.0%
	upper (% Vol):	10.9%
	Vapour pressure (at 20°C):	4 Bar
	Vapour density (at 20 °C):	Not determined
	Relative density:	0.619 g/cm3
	Solubility in/miscibility with	
	- water	Not miscible or difficult to mix
	Partition coefficient (n-octanol/water):	Not determined
	Auto-ignition temperature:	Not determined
	Decomposition temperature:	Not determined
	Viscosity:	Not determined
	Oxidative properties:	Not determined
9.2.	Other information:	-
	Organic solvents:	82.6%
	VOC:	511.3 g/l

10. Section 10. Stability and reactivity:

10.1.	Reactivity:	No further relevant information available.
10.2.	Chemical stability:	No further relevant information available.
10.3.	Possibility of hazardous reactions:	No dangerous reactions known.
10.4.	Conditions to avoid:	No further relevant information available.
10.5.	Incompatible materials:	No further relevant information available.
10.6.	Hazardous products of decomposition:	No dangerous decomposition products known.

Date of issue: 14.04.2011	Trade name:	Page: 5/7
Reviewed on:	SILICONE GREASE	Version.1.0

11. Section 11. Toxicological information:

- 11.1 Information on toxicological effects:
- | | |
|----------------------------|--|
| Acute toxicity: | Not. |
| Irritation: on the skin: | No irritant effect. |
| on the eye: | No 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:

- 12.1. Toxicity:
- Ecotoxicological effects:
- Acquatic toxicity:
- 142-82-5 heptane
- EC50 (24h) >10 mg/l (Daphnia Magma)
- LC50 (48h) 4924 mg/l (Fish)
- Water hazard class 2 (Self-assessment): hazardous for water.
- Do not allow product to reach ground water, water bodies or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- Also poisonous for fish and plankton in water bodies.
- Toxic for fish. Toxic for aquatic organisms
- 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 of together with household garbage. Do not allow product to reach sewage system. |
| Uncleaned packaging: | Disposal must be made according to official regulations. |

14. Section 14. Transport information:

- 14.1. Land transport:
- | | |
|-------------------------|---------------------------|
| ADR/RID-GGVS/E class: | 2 5F Gases |
| Danger code (Kemler): | Not determined |
| Packaging group: | Not determined |
| Number UN: | 1950 |
| Special marking: | Symbol (fish and tree) |
| Description of goods: | Aerosols |
| Remarks: | "Limited quantities", LQ2 |
| Transport category: | 2 |
| Tunnel restriction code | D |
- 14.2. Maritime transport:
- | | |
|------------------|----------------|
| IMDG-class: | 2.1 |
| Number UN: | 1950 |
| Packaging group: | Not determined |

Date of issue: 14.04.2011	Trade name:	Page: 6/7
Reviewed on:	SILICONE GREASE	Version.1.0

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: Not determined
 Proper shipping name: Aerosols, flammable
 · UN "Model Regulation": UN1950; AEROSOLS; 2.1
 Special precautions for users - Waring: 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:
 74-98-6/106-97-8 Propane/Butane , 540-84-1 2,2,4 trimethylpentane

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



N- Dangerous for to environmental

Numbers and word reading associated hazard R-sentences :

- R 12 Extremely flammable.
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 67 Vapours may cause drowsiness and dizziness.

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 vapours / aerosol
- S 24 Avoid contact with skin.
- 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: 0.619 g/cm³
 VOC: 511.3 g/l

Used legislation:

- European Regulation (EC) No 1907/2006 – REACH.
- Commission Regulation (EU) No 453/2010.
- European Regulation No 67/548EEC and 1999/45/EC.
- Commission Regulation (EC) No 1272/2006 – CLP.
- Commission Regulation (EC) No 790/2009.
- Regulation (EC) No 648/2004 (detergents).

Date of issue: 14.04.2011	Trade name:	Page: 7/7
Reviewed on:	SILICONE GREASE	Version.1.0

National regulations:
Danish MAL Code 5-3

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 38 Irritating to skin.
- R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 65 Harmful: May cause lung damage if swallowed.
- 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.
- H336 May cause drowsiness or dizziness.
- H410 Very toxic to aquatic life with long lasting effects.

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.**