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

- 1.1. Product identifier: **SILICONE OIL R 34401**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:
Application of the substance / the mixture: Silicone 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:

- 2.1. Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008 [CLP]:
Flam. Aerosol 1 H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
Skin Irrit. 2 H315 Causes skin irritation.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
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 R12 Extremely flammable.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 2.2. Label elements:
Labelling according to Regulation (EC) No 1272/2008 [CLP]:
Symbol:
 
- Signal word: Danger
- Hazard statements:
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H412 Harmful to aquatic life with long lasting effects.
- 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.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.

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- 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 of the mixture: Mixture of active agents with propellant

Hazardous ingredients:

CAS: 75-28-5 EINECS: 200-857-2	Isobutane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	25-50 %
CAS: 74-98-6 EINECS: 200-827-9	Propane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	20-25 %
CAS: 106-97-8 EINECS: 203-448-7	Butane (containing <0.1 % butadiene (203-450-8)) F+ R12 Flam. Gas 1, H220; Press. Gas, H280	2.5-10 %
EINECS: 927-510-4 Reg.nr.: 01-2119475515-33	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics Xn R65; Xi R38; F R11; N R51/53; R67 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10 %
EINECS: 921-024-6 Reg.nr.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Xn R65; Xi R38; F R11; N R51/53; R67 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10 %

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

4. Section 4. First aid measures:

- 4.1. Description of first aid measures:
- After inhalation: Supply fresh air.
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
Immediately remove any clothing soiled by the product.
- After eye contact: Rinse opened eye for several minutes under running water.
Get medical attention if any discomfort continues.
- After swallowing: Do not induce vomiting.
Rinse mouth with plenty of water and drink large amount of water.
Call for a doctor immediately.
- 4.2. Most important symptoms and effects, both acute and delayed:
No further relevant information available.
- 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: Foam, fire-extinguishing powder, carbon dioxide.
For safety reasons unsuitable extinguishing agents:
Water with full jet.
- 5.2. Special hazards arising from the substance or mixture:
Formation of explosive gas-air mixtures is possible.
Formation of toxic gases is possible during heating or in case of fire.
Carbon monoxide (CO), carbon dioxide (CO₂).
- 5.3. Advice for firefighters:
Wear protective clothing and self-contained breathing apparatus.
Cool endangered receptacles with water spray.

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Dispose contaminated extinguishing water and remains after the fire in accordance with the official regulations.

6. Section 6. Accidental release measures:

- 6.1. Personal precautions, protective equipment and emergency procedures:
Wear protective equipment see Section 8.2.
Keep unprotected persons away.
Ensure adequate ventilation.
Keep ignition sources away.
- 6.2. Environmental precautions: Do not allow to enter sewage system, surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- 6.3. Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
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: Ensure good ventilation/exhaustion at the workplace.
Avoid contact with skin and eyes.
- Measures to prevent fire: Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
- 7.2. Conditions for safe storage including any incompatibilities:
Technical measures and storage conditions: Observe official regulations on storing packagings with pressurized containers.
Requirements for storage rooms and vessels: Observe official regulations on storing packagings with pressurized containers.
Store in a cool location.
Further information on storage conditions: Protect from heat and direct sunlight.
- 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 (UK): 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	
106-97-8	Butane	600	1450	750	1810	Carc. (only applies if Butane contains more than 0.1 % of buta-1,3-diene)

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.
Personal protection equipment:
Breathing equipment: Not required, but ensure good ventilation/exhaustion at the workplace. Filter AX.
Eye protection: Tightly sealed goggles
Protection of hands: Protective gloves
The glove material must be impermeable and resistant against the product/ substance/ preparation.

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Material of gloves: Nitril rubber, NBR
 Recommended thickness of the material: ≥ 0.7 mm
 Penetration time of glove material: ≥ 240 min
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 Protective suit.
 Protection of skin:
 General protective and hygienic measures:
 Keep away from foodstuffs, beverages and feed.
 Wash hands before breaks and at the end of work.
 Do not inhale gases/ fumes/ aerosols.
 Immediately remove all soiled and contaminated clothing.
 Avoid eye and skin contact.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Form: Aerosol
 Colour: Colourless
 Odour: Solvent-like
 Odour threshold: Not determined
 Value pH: Not determined
 Melting point/freezing point: Not determined
 Initial boiling point/boiling range: Not applicable
 Flash point: Not applicable
 Evaporation rate: Not determined
 Flammability (solid, gas): Not determined
 Explosive properties: The product is not explosive. However, formation of explosive air/steam mixtures is possible.
 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: 0.615 g/cm³
 Relative density: Not determined
 Solubility in/miscibility with:
 - water: Not miscible or difficult to mix.
 Partition coefficient (n-octanol/water):
 Ignition temperature: > 200 °C
 Decomposition temperature: Not determined
 Self-igniting: The product is not selfigniting.
 Viscosity: Not determined
 Oxidising properties: Not determined

9.2. Other information:

VOC: 502.9 g/l
 Organic solvent: 81.7 %

10. Section 10. Stability and reactivity:

10.1. Reactivity: No further relevant information available.
 10.2. Chemical stability: No decomposition if used according to specifications.
 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 decomposition products: Carbon monoxide (CO), carbon dioxide (CO₂), aldehyde.

11. Section 11. Toxicological information:

11.1. Information on toxicological effects:

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Acute toxicity:

LD/LC50 values relevant for classification:

CAS		LD50 Oral, rat mg/kg	LD50 Dermal, rabbit mg/kg	LC50/4h Inhalative, rat mg/l
75-28-5	Isobutane			> 50
74-98-6	Propane			> 20
106-97-8	Butane			658
	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	> 5840	> 2920	> 23300
	Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane	> 5840	> 2920	< 25.2

Irritation: Skin: Irritant to skin and mucous membranes.
Eyes: 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: Vapours have a narcotizing effect.

12. Section 12. Ecological information:

12.1. Toxicity:

Aquatic toxicity:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

EC50/48 h 3 mg/l (Daphnia magna)

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

EC50/48 h 3 mg/l (Daphnia magna)

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.

Ecotoxic effects: Remark: Toxic for fish.

Additional ecological information:

General notes: Water danger class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Toxic to aquatic organisms

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.

Dispose in safe manner in accordance with local/national regulation.

Uncleaned packagings: Disposal must be made according to official regulations.

14. Section 14. Transport information:




14.1. UN number:

ADR, IMDG, IATA UN1950

14.2. UN proper shipping name:

ADR 1950 AEROSOLS

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IMDG	AEROSOLS
IATA	AEROSOLS, flammable
14.3. Transport hazard class(es):	
ADR	
Class	2 5F Gases
Hazard label	2.1
IMDG	
Class	2.1
Hazard label	2.1
IATA	
Class	2.1
Hazard label	2.1
14.4. Packing group:	
ADR, IMDG, IATA	Void
14.5. Environmental hazards:	
Marine pollutant:	No
14.6. Special precautions for user:	Warning: Gases
Danger Code (Kemler):	-
EMS Number:	F-D, S-U
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable
Transport/ Additional information:	
ADR	
Limited quantities (LQ)	LQ2
Transport category	2
Tunnel restriction code	B1D
UN "Model Regulation":	UN1950, AEROSOLS, 2.1

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 (REACH), as amended
Directive 67/548/EEC and Directive 1999/45/EC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances, as amended
Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP), as amended
Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended

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.)

Relevant R-phrases and H-statements (Section 3):

R11 Highly flammable.

R12 Extremely flammable.

R38 Irritating to skin.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: May cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

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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.
H411 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
ICAO International Civil Aviation Organization
GHS Globally Harmonized System of Classification and Labelling of Chemicals
EINECS European Inventory of Existing Commercial Chemical Substances
CAS Chemical Abstracts Service (division of the American Chemical Society)
OEL Occupational Exposure Limit
WEL Workplace exposure limits
BMGV Biological monitoring guidance values
STEL Short-term exposure limit
TWA Time-Weighted Average
EC50 Effective concentration, 50 percent
LC50 Lethal concentration, 50 percent
LD50 Lethal dose, 50 percent
DNEL Derived No-Effect Level
PNEC Predicted No-Effect Concentration
LOEC Lowest Observed Effect Concentration
NOEC No Observed Effect Concentration
PBT Persistent Bioaccumulative Toxic
vPvB Very Persistent, Very Bioaccumulative
VOC Volatile Organic Compounds
MAL-Code Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

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.

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