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Reviewed on:	SUPER LUBE	Version 1.0

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

- 1.1. Product identifier : **SUPER LUBE - R 34403**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against: Pure 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, +420327 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.

EUH066 Repeated exposure may cause skin dryness or cracking.

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.

R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

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

GHS02



DANGER

GHS07



WARNING

GHS09



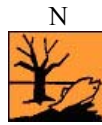
H222 Extremely flammable aerosol.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

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Labelling according to Directive 1999/45/EC:



Extremely flammable



Dangerous for the
Environment

R12 Extremely flammable.

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

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

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	25-<50%
CAS: 109-66-0 EINECS: 203-692-4	Pentane F+ R12; N R51/53; Xn R65; R66 R67 GHS02 Flam. Liq. 2, H225; GHS08 Asp. Tox. 1, H304; GHS09 Aquatic Chronic 2, H411; STOT SE 3, H336; EUH066	10-<25%
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum); Hydrotreated light (contains less than 0.1% 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	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: 107-98-2 EINECS: 203-539-1	1-Methoxypropan-2-ol R10 GHS02 Flam. Liq. 3 H226	1.0-<2,5%
CAS: 67-63-0 EINECS: 200-661-7	Propan-2-ol F R 11; Xi R36; R67 GHS02 Flam. Liq. 2, H225; GHS07 Eye Irrit. 2, H319; STOT SE 3, H336	1.0-<2,5%

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

4. Section 4. First aid measures:

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<p>4.1. Description of first aid measures:</p> <p>After inhalation: Supply fresh air; consult doctor in case of symptoms. For breathing difficulties oxygen may be necessary.</p> <p>After skin contact: Remove soaked clothing. Wash with water and soap; consult doctor in case of symptoms.</p> <p>After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.</p> <p>After swallowing: Rinse mouth and give large amounts of water to people not unconscious. Do not induce vomiting; Consult a physician.</p> <p>Most important symptoms and effects, both acute and delayed: No further relevant information available.</p> <p>Indication of any immediate medical attention and special treatment needed: No further relevant information available.</p>	
<p>5. Section 5. Fire fighting measures:</p> <p>5.1. Extinguishing media: Suitable extinguishing agents: CO₂, extinguishing powder or alcohol resistant foam. For safety reasons unsuitable extinguishing agents: Water jet.</p> <p>5.2. Special hazards arising from the substance or mixture: Relevant information available.</p> <p>5.3. Advice for firefighters: Wear protective equipment/clothing when fighting fires. Aerosols may explode when overheated. Cool the container with water.</p>	
<p>6. Section 6. Accidental release measures:</p> <p>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.</p> <p>6.2. Environmental precautions: Do not allow product to reach sewage system, surface or ground water Inform respective authorities in case of seepage into water course or sewage system.</p> <p>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. Dispose of contaminated material as waste according to Section 13.</p> <p>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.</p>	
<p>7. Section 7. Handling and storage:</p> <p>7.1. Information for safe handling: Information about protection against explosions and fires:</p> <p>7.2. Conditions for safe handling, including any incompatibilities: Requirements to be met by storerooms and containers:</p> <p>Information about storage in one common storage</p>	<p>Ensure good ventilation/exhaustion at the workplace. 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.</p> <p>Store in cool location. Observe official regulations on storing packaging with pressurized containers. Observe official regulations on storing packaging</p>

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facility: 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 (containing < 0.1% butadiene (203-450-8))
WEL Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm
Carc (if more than 0.1% of buta-1.3-diene)
WEL 109-66-0 Pentane
Long-term value: 3000 mg/cm³, 1000 ppm
74-98-6 propane
WEL Short-term value: 3600 mg/m³, 2000 ppm
Long-term value: 1800 mg/m³, 1000 ppm
WEL 107-98-2 1-Methoxypropan-2-ol
Short-term value: 560 mg/m³ - 150ppm
Long-term value: 375mg/m³ - 100ppm
67-63-0 Propan-2-ol
WEL Short-term value: 1250 mg/m³, 500 ppm
Long-term value: 999 mg/m³, 400 ppm
Additional information:
The lists that were valid during the compilation were as basis.

8.2 Exposure controls:
Eye protection: Tightly sealed goggles.
Breathing equipment: 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.
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): 200°C
Explosive properties: Product is not explosive. However, formation of explosive air/steam mixtures is possible.

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<p>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</p> <p>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</p> <p>12.6. Other adverse effects: No further relevant information available.</p>	
<p>13. Section 13. Disposal considerations:</p> <p>13.1 Waste treatment methods: Product: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Uncleaned packagings: Disposal must be made according to official regulations.</p>	
<p>14. Section 14. Transport information:</p> <p>14.1. Land transport: ADR/RID-GGVS/E class: 2 5F Gases Danger code (Kemler): - Packaging group: - Number UN: 1950 Special marking: Symbol (fish and tree) Description of goods: Aerosols Remarks: "Limited quantities", LQ2 Transport category: 2 Tunnel restriction code: D</p> <p>14.2. Maritime transport: IMDG-class: 2.1 Page: - Number UN: 1950 Packaging group: - EMS-group: F-D,S-U Marine pollutant: Yes Symbol (fish and tree) Proper shipping name: Aerosols</p> <p>14.3. Air transport: ICAO / IATA -class: 2.1 UN/ID number: 1950 Packaging group: - Proper shipping name: Aerosols, flammable 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</p>	
<p>15. Section 15. Regulatory information:</p> <p>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: 109-66-0 Pentane, 64742-49-0 Naphtha (petroleum), hydrotreated light 74-98-6/106-97-8 Propane/Butane</p> <p>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.</p>	

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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 66 Repeated exposure may cause skin dryness or cracking.
- 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: 0.637 g/cm³

VOC: 527.4 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).

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 10 Flammable
- R 11 Highly flammable.
- R 12 Extremely flammable.
- R 36 Irritating to eyes.
- R 38 Irritating to skin.
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 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.

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- H225 Highly flammable liquid and vapour.
- H226 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.
- H336 May cause drowsiness or dizziness.
- 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.**