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Reviewed on:	<b>DRY LUBE</b>	Version: 1.0

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

- 1.1. Product identifier : **DRY LUBE – R 34408**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against: Dry lubricant on teflon base
- 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.  
Skin Irrit. 2 H315 Causes skin irritation.  
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  
Xi-Irritant R38 Irritating to skin.  
N-Dangerous for the environment R51/53 Toxic to aquatic organisms, may cause long-term effects in aquatic environment.  
R67 Vaporous 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.  
H315 Causes skin irritation.  
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

Xi



Irritant

N



Dangerous for the Environment

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R12 Extremely flammable  
R38 Irritating to skin.  
R 51/53 Toxic to aquatic organisms, may cause long-term effects in aquatic environment.  
R67 Vaporous 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 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: 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	60-100%
CAS: 68476-85-7 EINECS: 270-704-2	Liquefied petroleum gas (contains less than 0.1% 1,3-butadiene) F+ R12 GHS02 Flam. Gas 1, H220; GHS04 Press. Gas H280	30-60%
	Fluorotelomer Dispersion (Dry Film) F R11; Xi R36, R67	1-5%
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	1-5%

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.

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: Rinse mouth; 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: CO<sub>2</sub>, extinguishing powder or alcohol resistant foam.

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<p>For safety reasons unsuitable extinguishing agents: Water jet.</p> <p>5.2. Special hazards arising from the substance or mixture: In case of fire CO, CO<sub>2</sub> may be possible.</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><b>6. Section 6. Accidental release measures:</b></p> <p>6.1. Personal precautions, protective equipment and emergency procedures: Wear protective equipment see Section 8.2. Keep unprotected person away.</p> <p>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.</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). 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><b>7. Section 7. Handling and storage:</b></p> <p>7.1. Information for safe handling: Ensure good ventilation/exhaustion at the workplace.</p> <p>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.</p> <p>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.</p> <p>Information about storage in one common storage facility: Do not store together with strong oxidizing agents. Observe official regulations on storing packaging with pressurized containers.</p> <p>Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.</p> <p>7.3. Specific end use(s): No further relevant information available.</p>	
<p><b>8. Section 8. Exposure controls and personal protection:</b></p> <p>8.1. Control parameters: Components with limit values that require monitoring at the workplace: 68476-85-7 Liquefied petroleum gas WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppm Long-term value: 724 mg/m<sup>3</sup>, 150 ppm 67-63-0 Propan-2-ol WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm Long-term value: 999 mg/m<sup>3</sup>, 400 ppm 64742-49-0 Naphtha (petroleum) – Long-term value: 1000 mg/m<sup>3</sup> Additional information: The lists that were valid during the compilation were as basis.</p> <p>8.2. Exposure controls:</p>	

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Eye protection:	Tightly sealed safety glasses.
Breathing equipment:	Not required, but ensure adequate ventilation when using the product.
Protection of hands:	Solvent resistant gloves. Selection of glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves: Nitrile rubber, NBR
Protection of skin:	Protective working clothing.
8.3. General protective and hygienic measures:	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands during breaks and at the end of the work. Do not inhale gases/fumes/aerosols.

<b>9. Section 9. Physical and chemical properties:</b>	
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:	Not applicable
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid,gas):	Not applicable
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):	0.8
upper (% Vol):	12.0
Vapour pressure (at 20°C):	3.8 Bar
Vapour density (at 20 °C):	Not determined
Relative density:	0.633 g/cm <sup>3</sup>
Solubility in/miscibility with - water	Partly miscible
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:	
VOC:	653 g/l

<b>10. Section 10. Stability and reactivity:</b>	
10.1. Reactivity:	No further relevant information available.
10.2. Chemical stability:	No further relevant information available.
10.3. Possibility of hazardous reactions:	Strong oxidizing substances.
10.4. Conditions to avoid:	Avoid temperatures exceeding 50°C
10.5. Incompatible materials:	No further relevant information available.
10.6. Hazardous products of decomposition:	In case of fire CO and CO <sub>2</sub> may be possible.

<b>11. Section 11. Toxicological information:</b>	
11.1. Information on toxicological effects:	
Acute toxicity:	
64742-49-0 Naphtha (petroleum), hydrotreated light	
Oral LD50 >5000 mg/kg (rat)	

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Dermal LD50	>2600 mg/kg (rab)
Inhalative LC50/4h	>193 mg/l (rat)
Irritation: on the skin:	Irritating effects.
on the eye:	May cause irritation to eyes.
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 further relevant information available.

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

- Water hazard class 2 (Self-assessment): hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system.  
Toxic to aquatic organisms, may cause long-term effects in aquatic environment.
- 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 of 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  
Danger code (Kemler): Information not available  
Number/Letter: 5F  
Number UN: 1950  
Description of goods: Aerosols  
Special marking: Symbol (fish and tree)  
Remarks: "Limited quantities", LQ2  
Tunnel restriction code: D
- 14.2. Maritime transport:  
IMDG-class: 2.1  
Page: Not determined  
Number UN: 1950  
Packaging group: Not determined  
EMS-group: F-D,S-U  
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: Warning: Gases

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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:

64742-49-0 Naphtha (petroleum), hydrotreated light, 68476-85-7 – Liquefied petroleum gas

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



Xi- Irritant



N- Dangerous for the environment

Numbers and word reading associated hazard R-sentences :

R 12 Extremely flammable.

R 38 Irritating to skin.

R 51/53 Toxic to aquatic organisms, may cause long-term effects in 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/spray

S 24/25 Avoid contact with skin and eye.

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.

Density: 0.633 g/cm<sup>3</sup>

VOC: 653 g/l

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

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).

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.

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- 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 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.
- 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

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.**