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

- 1.1. Product identifier : **FOAM CLEANER - R 34171 (spray)**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against: Cleaning foam
- 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 |
| Eye Irrit. 2 | H319 Causes serious eye irritation. |
| Skin Sens. 1 | H317 May cause an allergic skin reaction. |
| 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
Xi-Irritant	R43 May cause sensitization by skin contact.

H52/53 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:

GHS02



GHS07



DANGER WARNING

H222 Extremely flammable aerosol
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Labelling according to Directive 1999/45/EC:

F+



Extremely flammable

Xi



Irritant

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- R 12 Extremely flammable.
R 43 May cause sensitisation by skin contact.
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 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	2.5-<10%
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	2.5-<10%
CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol Xn R20/21/22; Xi R36/38 GHS07 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	2.5-<10%
CAS: 74-98-6 EINECS: 200-827-9	Propane F+ R12 GHS02 Flam. Gas 1, H220; GHS04 Press. Gas, H280	1-<2.5%
CAS: 5989-27-5 EINECS: 227-813-5	(R)-p-metha-1,8-diene (d-limonene) R10; Xi R38-43; N R50/53 GHS02 Flam.Liq3, H226; GHS09 Aquatic Acute1, H400; Aquatic Chronic1, H410;GHS07 Skin Irrit2, H315; Skin Sens.1, H317	1-<2.5%

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

Ingredients according to detergents guideline 648/2004/EC:

Aliphatic Hydrocarbons 5-15%, perfumes, anionic surfactant <5%

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: In case of unconsciousness place patient stable in side position for transportation.

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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.
- 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. Accidental release measures:

- 6.1. Personal precautions, protective equipment and emergency procedures:
Wear protective equipment see Section 8.2. Ensure adequate ventilation. Keep unprotected person away.
- 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 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:
Information about protection against explosions and fires:
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.
- 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 Butan (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-1.3diene)

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67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m³, 500 ppm
Long-term value: 999 mg/m³, 400 ppm

74-98-6 Propane

WEL Short-term value: 3600 mg/m³, 2000 ppm
Long-term value: 999 mg/m³, 400 ppm

111-76-2 2-butoxyethanol

WEL Short-term value: 246 mg/m³, 50 ppm
Long-term value: 98 mg/m³, 20 ppm

Additional information

The lists that were valid during the compilation were as basis.

8.2. Exposure controls:

Eye protection: Tightly sealed safety glasses.
Breathing equipment: Not required, but ensure adequate ventilation when using the product.
Protection of hands: Selection of glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves: Nitrile rubber, NBR
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Protection of skin: Protective working clothing.

8.3. General protective and hygienic measures: Do not inhale gases / fumes / aerosols. Wash hands during breaks and at the end of the work.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Appearance:

form: Aerosol
colour: Light beige
Odour threshold: Characteristic
Value pH: Not determined
Melting point/freezing point: Not determined
Melting point/freezing point: Not determined
Initial boiling point/boiling range: 0°C
Flash point: -60°C
Evaporation rate: Not determined
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): Not determined
upper (% Vol): Not determined

Vapour pressure (at 20°C): 4 Bar

Vapour density (at 20 °C): Not determined

Relative density: 0.913 g/cm³

Solubility in/miscibility with
- water

Fully 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: 687.1g/l

Organic solvents: 22.8 %

Water 76.3 %

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Solids content: 0.3%

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: | There are known no conditions to avoid. |
| 10.5. Incompatible materials: | There are known no incompatible materials. |
| 10.6. Hazardous products of decomposition: | No dangerous decomposition products known. |

11. Section 11. Toxicological information:

- 11.1. Information on toxicological effects:
- Acute toxicity:
- 111-76-2 2-butoxyethanol
- | | | |
|--------|------|-----------------|
| Oral | LD50 | 300 mg/kg (rat) |
| | | 470mg/kg (rab) |
| Dermal | LD50 | 2000mg/kg (rab) |
- 67-63-0 propan-2-ol
- | | | |
|------------|---------|----------------------|
| Oral | LD50 | 4570 mg/kg (rat) |
| Dermal | LD50 | 13400 mg/kg (rabbit) |
| Inhalative | LC50/4h | 30 mg/l (rat) |
- Irritation: on the skin: No irritant effect.
on the eye: No irritating effect.
- Corrosivity: Not corrosive.
- Sensitization: May cause sensitization by skin contact.
- 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:
- 111-76-2 2-butoxyethanol LC50 490 mg/l (Lepomis macrochirus (96h)).
- Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- Harmful to fish and to 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 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:

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ADR/RID-GGVS:	2
Number/Letter:	5F
Danger code (Kemler):	-
Number UN:	1950
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:	-
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:	-
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:

Contains: d-limonene. May produce an allergic reaction.

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

Numbers and word reading associated hazard R-sentences :

R 12 Extremely flammable.

R 43 May cause sensitisation by skin contact.

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:

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- S 2 Keep out of reach of children.
- S 16 Keep away from sources of ignition – No smoking.
- S 23 Do not breathe vapors/spray.
- S 24/25 Avoid contact with skin and eyes.
- S 37 Wear suitable gloves.
- 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.).

Regulation (EC) No 648/2004 contains: Aliphatic Hydrocarbons 5-15%, perfumes, anionic surfactant <5%
Density: 0.913 g/cm³
VOC: 687.1 g/l
Solids content: 0.3%

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 3-3

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

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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 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- R 36 Irritating to eyes.
- R 38 Irritating to skin.
- R 36/38 Irritating to eyes and skin.
- R 43 May cause sensitisation by skin contact.
- R 50/53 Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.
- R 67 Vapours may cause drowsiness and dizziness.
- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- 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
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
MAL-Code: Måleteknisk Arbejdshygienisk 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.**