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**1. Identification of substance, company:**

1.1. Identification of substance: **GLASS CLEAN - R 34698**

1.2. Application of the substance/the preparation: Cleaning foam


1.3. Identification of manufacturer/Supplier:  
RETECH, s.r.o.  
Vackova 1541/4  
150 00 Praha-5 Stodůlky  
Telephone/Fax: +420 327 596 128, +420 596 428  
Information: [info@retech.cz](mailto:info@retech.cz)

1.4. Telephone number for RETECH Suchdol 212, Suchdol u Kutné Hory  
extraordinary situations: 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. 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.

2.1. Hazard designation:

F+



Extremely flammable

2.2. Information pertaining to particular dangers for man and environment:  
Extremely flammable.

2.3. Additional information:  
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.  
Buildup of explosive mixtures possible without sufficient ventilation.  
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.

**3. Composition/information on ingredients:**

3.1. Description:  
Mixture of the substances listed below with harmless additions.

3.2. \* Dangerous components:

Chemical name	Contents(%)	Number CAS	Number ES	Cautionary symbol	R sentences
Propane-2-ol	10-<25	67-63-0	200-661-7	Xi,F	R 11-36-67
Propane	2,5-<10	74-98-6	200-827-9	F+	R 12
Butane	2,5-<10	106-97-8	203-448-7	F+	R 12

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

3.3. Ingredients according to detergents guideline 648/2004/EC:  
15-30% Aliphatic Hydrocarbons, <5% Anionic, cationic surfactants, Perfume

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<p><b>4. First aid measures:</b></p> <p>4.1. After inhalation: Supply fresh air; consult doctor in case of symptoms.</p> <p>4.2. After skin contact: Remove soaked clothing; Wash with water and soap.</p> <p>4.3. After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.</p> <p>4.4. After swallowing: Rinse mouth; Do not induce vomiting; Consult a physician.</p> <p>4.5. General information: -</p>		
<p><b>5. Fire fighting measures:</b></p> <p>5.1. Suitable extinguishing agents: CO2, extinguishing powder or alcohol resistant foam.</p> <p>5.2. For safety reasons unsuitable extinguishing agents: Water jet.</p> <p>5.3. Protective equipment: Wear protective equipment/clothing and oxygen-mask when fighting fires.</p> <p>5.4. Special hazards caused by the material, its products of combustion or resulting gases: Not determined</p> <p>5.5. Additional information: Aerosols may explode when overheated. Cool the container with water.</p>		
<p><b>6. Accidental release measures:</b></p> <p>6.1. Person-related safety precautions: Wear protective equipment see item 8.2. Ensure adequate ventilation. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Keep unprotected person away.</p> <p>6.2. Measures for environmental protection: 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. Measures for cleaning/collecting: Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13.</p>		
<p><b>7. Handling and storage:</b></p> <p>7.1. Handling:        Information for safe handling: Ensure good ventilation/exhaustion at the workplace.        Avoid spilling, skin and eye contact.        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.        Protect against electrostatic charges.        Do not spray on flames or red-hot objects.        Keep ignition sources away - Do not smoke.</p> <p>7.2. Storage:        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 in well sealed receptacles.        Protect from heat and direct sunlight.</p>		
<p><b>8. Exposure controls and personal protection:</b></p> <p>8.1. * Validate parameter:        Components with limit values that require monitoring at the workplace:</p>		

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<p>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</p> <p>74-98-6 Propane WEL Short-term value: 3600 mg/cm<sup>3</sup>, 2000 ppm Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm</p> <p>106-97-8 butane (containing &lt; 0.1% butadiene (203-450-8)) OES Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)</p> <p>Additional information The lists that were valid during the compilation were as basis.</p>		
8.2. *	Personal protective equipment:	
	Eye protection:	Safety goggles/ glasses are advised if there is risk of eye contact.
	Breathing equipment:	None required under normal use.
	Protection of hands:	Chemical resistant gloves required for prolonged or repeated contact.
	Protection of skin:	Working suit
8.3.	General protective and hygienic measures:	Do not inhale gases / fumes / aerosols. Wash hands during breaks and at the end of the work.
<b>9.</b>	<b>Physical and chemical properties:</b>	
	Form:	Aerosol
	Colour:	White
	Odour:	Characteristic
9.1. *	Value pH:	Not determined
	Melting point/Melting range:	Not determined
	Boiling point/Boiling range:	0°C
	Flash point:	-60°C
	Inflammability (strength, gas form)	365°C
	Self-inflammability:	Product is not self igniting.
	Danger of explosion:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
	Explosion limits: lower (% Vol):	2.0
	upper (% Vol):	12.0
	Vapour pressure (at 20°C):	4.0Bar
	Density at 20 °C	0.913 g/cm <sup>3</sup>
	Solubility in/Miscibility with	
	- water	Not miscible or difficult to mix
9.2. *	Other information:	
	Organic solvents:	22.2%
	Water:	77.0%
	Solids content:	0.5%
<b>10. *</b>	<b>Stability and reactivity:</b>	
10.1.	Thermal decomposition / conditions to be avoided:	No decomposition if used according to specification.
10.2.	Materials to be avoided:	No materials to be avoided.
10.3.	Dangerous reactions:	No dangerous reactions known.
10.4.	Dangerous products of decomposition:	No dangerous decomposition products known.
<b>11.</b>	<b>Toxicological information:</b>	
11.1. *	Acute toxicity:	
	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)
11.2.	Primary irritant effect:	


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on the skin:	No irritant effect.
on the eye:	Irritation may be possible.
Sensitization:	No sensitizing effects known.
Additional toxicological information:	-

**12. Ecological information:**  
 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.

**13. Disposal considerations:**  
 13.1. Product: Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
 13.2. Uncleaned packagings: Disposal must be made according to official regulations.

**14. Transport information:**  
 14.1. \* Land transport:  
 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

**15. Regulatory information:**  
 15.1. Labelling according to law line:  
 74-98-6/106-97-8 Propane/Butane  
 The product has been labeled in accordance with EC Directives / relevant national laws.  
 Danger of determining components and mark to labelling:  
  
 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.  
 Discard empty packaging in separated waste.  
  
 Labelling hazardousness:  
  
 F+ - Extremely flammable  
  
 Numbers and word reading associated hazard R-sentences :  
 R 12 Extremely flammable.

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- \* 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 25 Avoid contact with eyes.  
S 46 If swallowed, seek medical advice immediately and show this container or label.  
S 51 Use only in well-ventilated areas.

- \* Density: 0,913 g/cm<sup>3</sup>  
Organic solvents:22.5%  
Solids content: 0.5%  
Ingredients according to detergents guideline 648/2004/EC:  
15-30% Aliphatic Hydrocarbons, <5% Anionic, cationic surfactants, Perfume

- 15.2. Used legislation:  
European Regulation (EC) No 1907/2006 – REACH  
European Regulation No 67/548EEC and 1999/45/EC  
Regulation (EC) No 648/2004 (detergents)

**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-phrases:

- R 11 Highly flammable.  
R 12 Extremely flammable.  
R 36 Irritating to eyes.  
R 67 Vapours may cause drowsiness and dizziness.

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