SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

PU FOAM CLEANER

Creation date	14th January 2022		
Revision date		Version	3.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier — PU FOAM CLEANER

Substance / mixture	mixture
Number	RS 11001
UFI	T1PT-V9JM-F004-F69Y

1.2. Relevant identified uses of the substance or mixture and uses advised against

Mixture's intended use

Cleaning agent.

Mixture uses advised against

not available

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name	RETECH, s.r.o.
Address	Vackova 1541/4, Praha 5 - Stodůlky, 155 00 Czech Republic
Identification number (CRN)	25018205
VAT Reg No	CZ25018205
Phone	+420327596428
E-mail	info@retech.cz
Web address	www.retech.com

Competent person responsible for the safety data sheet

Name	RETECH, s.r.o.
E-mail	info@retech.cz

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aerosol 1, H222, H229
Eye Irrit. 2, H319
STOT SE 3, H336

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

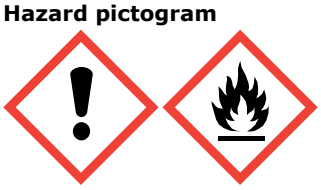
Extremely flammable aerosol. Pressurised container: May burst if heated.

Most serious adverse effects on human health and the environment

Causes serious eye irritation. May cause drowsiness or dizziness.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

acetone

Hazard statements

H222	Extremely flammable aerosol.

H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary statements

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.
P261	Avoid breathing spray.
P271	Use only outdoors or in a well-ventilated area.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.

Supplemental information

EUH066	Repeated exposure may cause skin dryness or cracking.
	Restricted to professional users.

2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2 Registration number: 01-2119471330-49	acetone	70-100	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	1
Index: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2	isobutane (containing < 0,1 % butadiene (203-450-8))	10-15	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9	propane	3-5	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	
Index: 601-004-00-4 CAS: 106-97-8 EC: 203-448-7	butane (containing < 0,1 % butadiene (203-450-8))	<1	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	

Notes

1 Substance with a Union workplace exposure limit.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards. In the event of unconsciousness, do not provide food by mouth.

If inhaled

Transfer the affected person to the fresh air and ensure calm environment for body and mind. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Immediately wash with water and soap and rinse thoroughly. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Unlikely. Keep the affected person warm and at rest. Rinse out the mouth with clean water. Do not provide anything by mouth if the person is unconscious or if having cramps. DO NOT INDUCE VOMITING! Provide medical treatment. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

4.2. Most important symptoms and effects, both acute and delayed

If inhaled

May cause drowsiness or dizziness. Headaches. Nausea. Unconsciousness.

If on skin

Prolonged or repeated contact with the product causes skin degreasing and drying. Possible irritation.

If in eyes

Causes serious eye irritation.

If swallowed

There may be soreness of the mouth and throat. Fatigue, narcotic effect. Dizziness, headaches, nausea. Vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, sand, powder. Earth.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

The products contain highly flammable vapors and liquids. In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Do not breathe smoke. Solvent gases are heavier than air and accumulate mainly on the floor where they can form an explosive mixture when mixed with air. The explosive limit of the propellant gas with the air at normal temperature and normal steam or mist volume: 1-16%.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Dispose of contaminated extinguishing water and remains after the fire in accordance with the official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Extremely flammable aerosol. Pressurised container: May burst if heated. Remove all ignition sources. Take action to prevent static discharges. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale gases and vapours. Do not inhale aerosols. Prevent contact with skin and eyes. Vapors from gases are heavier than air.

6.2. Environmental precautions

Do not allow product to reach sewage system or any water course.

6.3. Methods and material for containment and cleaning up

Cover contaminated area with damp earth or sand and let react for at least 30 minutes. Then remove mechanically. Dispose of the collected material according to the instructions in the section 13. After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent contact with skin and eyes. Do not inhale gases and vapours. Do not inhale aerosols. Provide sufficient ventilation. Use personal protective equipment as per Section 8. Remove all ignition sources. No smoking. Use explosion-proof electrical equipment. Take action to prevent static discharges. Proceed according to the instructions for use - no special protective measures are required if they are observed. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in original packaging. Store in a dry place. Keep cool. Keep away from heat,open flames. No smoking. Take action to prevent static discharges.

Content	Packaging type	Material of package
500 ml	aerosol can	ALU

7.3. Specific end use(s)

The mixture is applied by spraying to areas and objects from which the uncured PU foam should be removed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union **Commission Directive 2000/39/EC**

Substance name (component)	Type	Value
acetone (CAS: 67-64-1)	OEL 8 hours	1210 mg/m³
	OEL 8 hours	500 ppm

DNEL

acetone

Workers / consumers	Route of exposure	Value	Effect	Determining method
Consumers	Oral	62 mg/kg bw/day	Systemic chronic effects	
Consumers	Dermal	62 mg/kg bw/day	Systemic chronic effects	
Workers	Dermal	186 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	2420 mg/m³	Local acute effects	
Consumers	Inhalation	200 mg/m³	Systemic chronic effects	
Workers	Inhalation	1210 mg/m³	Systemic chronic effects	

PNEC

acetone

Route of exposure	Value	Determining method
Seawater	1.06 mg/l	
Freshwater sediment	30.4 mg/kg of dry substance of sediment	
Soil (agricultural)	29.5 mg/kg	
Sea sediments	3.04 mg/kg of dry substance of sediment	
Microorganisms in wastewater treatment plants	100 mg/l	
Freshwater environment	10.6 mg/l	
Water (intermittent release)	21 mg/l	

8.2. Exposure controls

No special requirements. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Keep away from flammable materials. Avoid spreading gas/mist/vapors of liquid. Do not inhale vapours. Do not breathe mist. Do not eat, drink and smoke during work. Prevent contact with skin and eyes. Avoid prolonged or repeated skin contact. Do not rub or touch your eyes with dirty hands. Take off contaminated clothing. And wash it before reuse. Appropriate techniques should be used to remove potentially contaminated clothing. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Treat with regenerative cream. Pregnant women should avoid inhalation and skin contact.

Eye/face protection

Tightly sealed goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. EN ISO 374-1. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Material of gloves: Butyl rubber. Penetration time of glove material: ≥ 240 min. Recommended thickness of the material: > 0.5 mm. Other protection: protective workwear.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self -contained respiratory protective device. EN143 - Respiratory protective devices - Gas filter(s) and combined filter(s). Filter A.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	gas
Colour	colourless
Odour	after solvents
Odour threshold	cca 13 ppm (aceton)
Melting point/freezing point	-94,7 °C (aceton)
Boiling point or initial boiling point and boiling range	-40--10 °C (hnací plyn)
Boiling point or initial boiling point and boiling range	55,8-56,6 °C (aceton)
Flammability	data not available
Lower and upper explosion limit	
bottom	1,1 %
upper	13 %
Flash point	-18 °C (aceton)
Flash point	-80 °C (hnací plyn)
Auto-ignition temperature	465 °C (aceton)
Decomposition temperature	data not available
pH	non-polar/aprotic
Kinematic viscosity	data not available
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	-0,24 (aceton)
Vapour pressure	24 kPa at 20 °C (aceton)
Vapour pressure	<0,7 MPa
Density and/or relative density	
Density	0,8 g/cm³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	aerosol dispenser: spray aerosol

9.2. Other information

Ignition temperature	>350 °C (hnací plyn)
Content of organic solvents (VOC)	0,998 kg/kg

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under normal conditions. Pressurised container: May burst if heated.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Exothermic reactions may occur in contact with acids. May react with strong oxidants.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating. Pressurised container: May burst if heated. Take action to prevent static discharges.

10.5. Incompatible materials

Protect against strong acids and oxidizing agents.

10.6. Hazardous decomposition products

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

acetone

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD_{50}	OECD 401	5800 mg/kg		Rat	
Inhalation	LC_{50}		76 mg/l	4 hour	Rat	
Dermal	LD_{50}		>15800 mg/kg		Rabbit	

butane (containing < 0,1 % butadiene (203-450-8))

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Inhalation	LC_{50}		>20 mg/l	4 hour	Rat	

isobutane (containing < 0,1 % butadiene (203-450-8))

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Inhalation	LC_{50}		>20 mg/l	4 hour	Rat	

propane

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Inhalation	LC_{50}		>20 mg/l	4 hour	Rat	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity
Based on available data the classification criteria are not met.

Reproductive toxicity
Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure
May cause drowsiness or dizziness.

Toxicity for specific target organ - repeated exposure
Based on available data the classification criteria are not met.

Aspiration hazard
Based on available data the classification criteria are not met.

11.2. Information on other hazards
not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity
Data for the mixture are not available.

acetone

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method
LC_{50}		5540 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		
LC_{50}		11000 mg/l	96 hour	Fishes (Alburnus alburnus)		
LC_{50}		8800 mg/l	48 hour	Daphnia (Daphnia magna)		
EC 12	OECD 209	1000 mg/l	0,5 hour	Bacteria	Activated sludge	Static system

Chronic toxicity

acetone

Parameter	Value	Time of exposure	Species	Environment	Determining method
NOEC	2212 mg/l	28 day	Daphnia (Daphnia pulex)		Reproduction
NOEC	430 mg/l	96 hour	Algae (Prorocentrum minimum)		Reproduction

12.2. Persistence and degradability

Biodegradability

acetone

Parameter	Method	Value	Time of exposure	Environment	Result
	OECD 301B	91 %	28 day		Easily biodegradable

The mixture is biodegradable.

12.3. Bioaccumulative potential

Unlikely.

12.4. Mobility in soil

The product is soluble and mobile in water and soil.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Prevent contamination of the soil and entering surface or ground water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

07 01 04	other organic solvents, washing liquids and mother liquors *
14 06 03	other solvents and solvent mixtures *

Packaging waste type code

15 01 11	metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers *
15 01 04	metallic packaging

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

2 Gases

14.4. Packing group

not relevant

14.5. Environmental hazards

No

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.	
UN number	1950
Classification code	5F
Safety signs	2.1

Marine transport - IMDG

EmS (emergency plan)	F-D, S-U

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. Product contains reportable explosives precursors: Reporting of suspicious transactions, disappearances and thefts according to Regulation (EU) 2019/1148, Article 9.

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Guidelines for safe handling used in the safety data sheet

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.
P211	Do not spray on an open flame or other ignition source.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P261	Avoid breathing spray.
P271	Use only outdoors or in a well-ventilated area.

A list of additional standard phrases used in the safety data sheet

EUH066	Repeated exposure may cause skin dryness or cracking.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road

BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC_{50}	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD_{50}	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Aerosol	Aerosol
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version from 20 May 2021. Changes were made in sections 2, 3, 8, 11, 12, 13, 15 and 16.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.