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Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 22.06.2022 Version 1 Revision: 22.06.2022

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

1.1 Product identifier

Trade name: FOAM CLEANER

UFI: GJS2-4086-800T-FMNE

1.2 Relevant identified uses of the substance or mixture and uses advised against
Application of the substance / the mixture Removes uncured PU foam residues

1.3 Details of the supplier of the safety data sheet
ROTHO BLAAS SRL
Via dell'Adige 2/1 - I - 39040 Cortaccia (BZ); Italia
Tel.: +39 0471818400
Fax.: +390471818484
e-mail: reach@rothoblaas.com
1.4 Emergency telephone number Call local emergency information.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02 GHS07

Signal word Danger

Hazard-determining components of labelling:
ethyl acetate
acetone

Hazard statements
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements
P102 Keep out of reach of children.
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.

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P337+P313	If eye irritation persists: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with national regulations.

Additional information:
EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards
Results of PBT and vPvB assessment
This mixture does not meet the PBT- or vPvB-criteria according to Regulation (EC) No 1907/2006.

SECTION 3: Composition/information on ingredients

3.2 Mixture
Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:		
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.No.: 01-2119475103-46	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	40 - 65%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.No.: 01-2119471330-49	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	25 - 45%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.No.: 01-2119485395-27	2-methylpropane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10 - 20%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.No.: 1-2119486944-21	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	3 - 10%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.No.: 01-2119474691-32	butane, pure Flam. Gas 1A, H220; Press. Gas (Comp.), H280	≤ 1%

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

SECTION 4: First aid measures

4.1 Description of first aid measures
General information:
In case of accident or if you feel unwell seek medical advice (show label where possible).
In case of unconsciousness place patient stably in side position for transportation.
Never give anything by mouth to an unconscious person.

After inhalation: Supply fresh air, keep warm and at rest. If symptoms persist seek medical advice.

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After skin contact:
Remove contaminated clothes. Rinse skin thoroughly with water and soap. In case of irritation seek medical treatment.

After eye contact:
Remove contact lenses and rinse opened eyes for at least 15 minutes with plenty of water. If irritation persists seek medical advice.

After swallowing:
Not applicable under normal use.
Flush with copious amounts of water (only if person is not unconscious).
If swallowed, do NOT induce vomiting: seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed
In case of inhalation: causes headache, drowsiness, dizziness, nausea, can cause unconsciousness.
After skin contact: frequently or prolonged skin contact may cause dermal irritation; degreases and dries skin.
After eye contact: irritation (redness, burning)
After ingestion: causes nausea, depression; may have an impact on the central nervous system.

4.3 Indication of any immediate medical attention and special treatment needed
Symptomatic treatment (decontamination, vital function), there is no specific antidote.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: CO2, extinguishing powder, sand, soil
For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture
Product contains highly flammable vapours and liquids. Formation of smoke in case of fire; carbon oxides , soot, hydrocarbons and aldehydes can be released due to incomplete combustion and thermolysis.
Risk of bursting due to heat. Formation of explosive air/vapour mixtures are possible. Vapors are heavier than air.
By distribution at ground level flash back to distant ignition sources is possible.

5.3 Advice for firefighters
Protective equipment:
Do not inhale explosion gases or combustion gases.
In the case of fire wear self-contained respiratory equipment and full protective suit.

Additional information
Cool endangered receptacles with water spray. Contain runoff to prevent entry into water or drainage systems.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Please notice instructions for person-related safety precautions, wear protective equipment (see 8.)
Avoid inhalation and contact with skin and eyes.
Do not breathe spray.
Ensure adequate ventilation.
Remove ignition sources.

6.2 Environmental precautions:
Do not allow to enter sewers, surface or ground water.

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Contain the spilled material by bunding.
Advise water authority in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:
Absorb with non-combustible absorbent material, (eg sand, diatomite, vermiculite).
Collect for recovery or disposal in suitable receptacles.
Clean affected area with plenty of water and detergent. Collect rinse water in labelled salvage container for disposal according to the regulations.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
While handling pay attention to the usual precaution for chemicals.
Comply with instructions for use.
Use only in well ventilated areas.
Do not breathe fumes/aerosol.
Avoid contact with the eyes and skin.
Wash hands before break and at the end of work.

Information about fire - and explosion protection:


Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights.
Do not pierce or burn, even after use.
Do not spray on an open flame or glowing objects.
Protect against electrostatic charges.
Fumes can combine with air to form an explosive mixture.
Use only non-sparking tools.

7.2 Conditions for safe storage, including any incompatibilities
Requirements to be met by storerooms and receptacles:
Store in original container only in a well-ventilated, cool, dry, secure area.
Storage regulations for pressurized gas receptacles must be observed.

Information about storage in one common storage facility:
Do not store food, beverages and animal feeding stuffs in the storage area.
Store away from oxidizing and self-igniting materials.

Further information about storage conditions:
Keep out of the reach of children and domestic animals.
Protect from heat and direct sunlight.

7.3 Specific end use(s) Use according to instructions.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
CAS: 141-78-6 ethyl acetate	
IOELV (EU)	Short-term value: 1468 mg/m³, 400 ppm; Long-term value: 734 mg/m³, 200 ppm
MAK (Austria)	Short-term value: 1468 mg/m³, 400 ppm; Long-term value: 734 mg/m³, 200 ppm
AGW (Germany)	Long-term value: 730 mg/m³, 200 ppm; 2(I);DFG, EU, Y
CAS: 67-64-1 acetone	
IOELV (EU)	Long-term value: 1210 mg/m³, 500 ppm
MAK (Austria)	Short-term value: 4800 mg/m³, 2000 ppm; Long-term value: 1200 mg/m³, 500 ppm
AGW (Germany)	Long-term value: 1200 mg/m³, 500 ppm; 2(I);AGS, DFG, EU, Y
CAS: 75-28-5 2-methylpropane	
MAK (Austria)	Short-term value: 3800 mg/m³, 1600 ppm; Long-term value: 1900 mg/m³, 800 ppm
AGW (Germany)	Long-term value: 2400 mg/m³, 1000 ppm; 4(II);DFG
CAS: 74-98-6 propane	
MAK (Austria)	Short-term value: 3600 mg/m³, 2000 ppm; Long-term value: 1800 mg/m³, 1000 ppm
AGW (Germany)	Long-term value: 1800 mg/m³, 1000 ppm; 4(II);DFG
CAS: 106-97-8 butane, pure	
MAK (Austria)	Short-term value: 3800 mg/m³, 1600 ppm; Long-term value: 1900 mg/m³, 800 ppm
AGW (Germany)	Long-term value: 2400 mg/m³, 1000 ppm; 4(II);DFG

Regulatory information
IOELV (EU): (EU) 2019/1831
MAK (Austria): GKV 2020, 156. Verordnung, 09.04.2021, Teil II
AGW (Germany): TRGS 900

DNELs:
ethyl acetate (CAS 141-78-6):
worker, DNEL, short-term exposure – systemic and local effects, inhalation 1468 mg/m³
worker, DNEL, long-term exposure – systemic and local effects, inhalation 734 mg/m³
worker, DNEL, long-term exposure - systemic effects, dermal 63 mg/kg bw/day
consumer, DNEL, short-term exposure - systemic and local effects, inhalation 734 mg/m³
consumer, DNEL, long-term exposure - systemic effects, dermal 37 mg/kg bw/day
consumer, DNEL, long-term exposure - systemic effects, oral 4.5 mg/kg bw/day
consumer, DNEL, long-term exposure – systemic and local effects, inhalation 367 mg/m³

acetone (CAS 67-64-1):
worker, DNEL, short-term exposure - local effects, inhalation 2420 mg/m³
worker, DNEL, long-term exposure - systemic effects, inhalation 1210 mg/m³
worker, DNEL, long-term exposure - systemic effects, dermal 186 mg/kg bw/day
consumer, DNEL, long-term exposure - systemic effects, dermal, oral 62 mg/kg bw/day
consumer, DNEL, long-term exposure - systemic effects, inhalation 200 mg/m³

PNECs:
ethyl acetate (CAS 141-78-6)
freshwater 0.26 mg/l, marine water 0.026 mg/l
sediment freshwater 0.34 mg/kg, marine water 0.034 mg/kg
soil 0.22 mg/kg

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acetone (CAS 67-64-1)
freshwater 10.6 mg/l, marine water 1.06 mg/l
sediment freshwater 30.4 mg/kg, marine water 3.04 mg/kg
intermittent releases 21 mg/l; STP 19.5 mg/l; soil 0.112 mg/kg

8.2 Exposure controls
Appropriate engineering controls Provide good ventilation or exhaust at work.

Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
Avoid unnecessary contact with the product. Do not eat, drink or smoke at workplace and keep it tidy.
Do not breathe gas/vapours/spray.
Remove contaminated clothing and wash carefully before reuse.
Store protective clothing separately.
Pregnant women should strictly avoid inhalation or skin contact.
Wash hands before break and at the end of work.

Respiratory protection:
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators (EN 141, Filtre type A).

Hand protection

Chemical resistant gloves (EN 374)

Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.
Material of gloves
The glove material has to be impermeable and resistant to the product.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection

Safety glasses with side shields (EN 166)

Ensure eye bath is to hand.

Body protection: Protective work clothing

Environmental exposure controls
Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Liquid
Colour:	Colourless
Odour:	Characteristic

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Odour threshold:	Not determined
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available.
Lower and upper explosion limit:	
Lower:	1.5 Vol % (propellant)
Upper:	13 Vol% (propellant)
Flash point:	No data available
Ignition temperature:	> 350 °C (propellant)
Decomposition temperature:	No data available.
pH:	Not applicable
Viscosity	
dynamic:	No data available.
Solubility	
water:	Partly soluble.
Partition coefficient, n-octanol/water:	No data available.
Vapour pressure:	< 0.7 MPa
Density at 20 °C:	≈ 0.8 g/cm³
Relative gas density	No data available.

9.2 Other information

Explosive properties:	No data available
VOC (EC):	0.998 kg/kg
Oxidising properties:	No data available.

Information with regard to physical hazard classes

Explosives	void
Flammable gases	void

Aerosols

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

Oxidising gases	void
Gases under pressure	void
Flammable liquids	void
Flammable solids	void
Self-reactive substances and mixtures	void
Pyrophoric liquids	void
Pyrophoric solids	void
Self-heating substances and mixtures	void
Substances and mixtures, which emit flammable gases in contact with water	void
Oxidising liquids	void
Oxidising solids	void
Organic peroxides	void
Corrosive to metals	void
Desensitised explosives	void

SECTION 10: Stability and reactivity

10.1 Reactivity Stable under recommended transport or storage conditions.

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10.2 Chemical stability No hazardous reaction when handled and stored according to provisions.

10.3 Possibility of hazardous reactions
Danger of receptacles bursting because of high vapour pressure when heated.
Exothermic reaction with strong acids.

10.4 Conditions to avoid
Heat, open flames, static electricity, under standard conditions of use hazardous reactions are not known.

10.5 Incompatible materials: Strong acids and oxidising agents.

10.6 Hazardous decomposition products:
Formation of smoke in case of fire; carbon oxides , soot, hydrocarbons and aldehydes can be released due to incomplete combustion and thermolysis.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:
There are no product specific data on toxicology available.

CAS: 141-78-6 ethyl acetate		
oral	LD50	4934 mg/kg (rabbit)
dermal	LD50	> 20 g/kg (rabbit)
inhalative	DL50/2h	29.3 mg/l (rat)
CAS: 67-64-1 acetone		
oral	LD50	5,800 mg/kg (rat)
inhalative	LC50/4h	76 mg/l

Skin corrosion/irritation
Based on available data, the classification criteria are not met.
Repeated exposure may cause skin dryness or cracking.
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.

STOT-single exposure
May cause drowsiness or dizziness.
STOT-repeated exposure Based on available data, the classification criteria are not met.

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

Experience with humans:
In case of inhalation: causes headache, drowsiness, dizziness, nausea, can cause unconsciousness.
After skin contact: frequently or prolonged skin contact may cause dermal irritation; degreases and dries skin.
After eye contact: irritation (redness, burning)
After ingestion: causes nausea, depression; may have an impact on the central nervous system.

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11.2 Information on other hazards
Endocrine disrupting properties None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
For the product there are no ecotoxicological data available.

CAS: 141-78-6 ethyl acetate	
EC50/48h	5600 mg/l (alga, Desmodesmus subspicatus)
	610 mg/l (water flea, Daphnia magna)
LC50/96h	230 mg/l (flathead minnow, Pimephales promelas)
NOEC/21d	2.4 mg/l (water flea, Daphnia magna) (OECD 211)
NOEC/32d	> 9.65 mg/l (flathead minnow, Pimephales promelas)
CAS: 67-64-1 acetone	
LC50/48h	8800 mg/l (water flea, Daphnia magna)
LC50/96h	5540 mg/l (rainbow trout, Oncorhynchus mykiss)

12.2 Persistence and degradability Biodegradable

12.3 Bioaccumulative potential The product has a low potential for bioaccumulation.

12.4 Mobility in soil High mobility

12.5 Results of PBT and vPvB assessment Not applicable.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation
Do not dispose waste or remains together with domestic waste, do not empty into sink or toilet, hand over to hazardous waste disposers.

European waste catalogue
16 05 04: Gases in pressure containers (including halons) containing dangerous substances
15 01 10: Packaging containing residues of or contaminated by dangerous substances

Uncleaned packaging
Recommendation:
Disposal must be made according to official regulations.
Containers not emptied completely have to be disposed of as hazardous waste and not together with household waste.
Do not pierce or burn, even after use.

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SECTION 14: Transport information

14.1 UN number or ID number	
ADR, IMDG, IATA	UN1950
14.2 UN proper shipping name	
ADR	1950 AEROSOLS
IMDG	AEROSOLS
IATA	AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	

Class	2 5F Gases.
Label	2.1
IMDG, IATA	

Class	2.1 Gases.
Label	2.1
14.4 Packing group	
ADR, IMDG, IATA	void
14.5 Environmental hazards:	not applicable
14.6 Special precautions for user	Warning: Gases.
Hazard identification number (Kemler code):	-
14.7 Maritime transport in bulk according to IMO instruments	not applicable
UN "Model Regulation":	UN1950, AEROSOLS, 2.1

SECTION 15: Regulatory information

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

Seveso category P3a FLAMMABLE AEROSOLS

National regulations: -

VOC (EC): 0.998 kg/kg

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Relevant phrases
H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

Further information:
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008: Calculation method

Date of previous version: 30.07.2021

Abbreviations and acronyms:
CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CAS: Chemical Abstracts Service (division of the American Chemical Society)
EINECS: European Inventory of Existing Commercial Chemical Substances
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
AGW: occupational exposure limit
MAK: maximum concentration of a chemical substance in the workplace
VLEP: Valeurs limites d'exposition professionnelle
DNEL: Derived No-Effect Level
PNEC: Predicted No-Effect Concentration
LC50: lethal concentration, 50%
LD50: lethal dose, 50%
EC50: maximal effective concentration, 50%
NOEC: no observed effect concentration
PBT: persistent, bioaccumulative and toxic properties
vPvB: very persistent and very bioaccumulative properties
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
VbF: Ordinance on the storage of combustible liquids, Austria
Flam. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Data compared to the previous version altered: Section 1,8,15