

SAFETY DATA SHEET

PENOSIL Premium Foam Cleaner

Date: 16.06.2010

Version nr.: 4

Revised: 24.10.2011

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

1.1. Product identifier: PENOSIL Premium Foam Cleaner

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

PENOSIL Premium Foam Cleanerit is used for removing uncured foam from foamgun, window frames or even clothers.

1.3. Details of supplier of the safety data sheet:

Krimelte Ltd
13619 Tallinn
Suur-Paala 10
Estonia
Tel. +372 605 93 00
Fax: (+372) 605 93 15
112

1.4. Emergency telephone number:

2. Hazards identification

2.1. Classification of the substance or mixture

According to 67/548/EC



Irritant (Xi)

R12 Extremely flammable.

R36 Irritating to eyes

R66 Repeated exposure may cause skin dryness or cracking

R67 Vapours may cause drowsiness and dizziness

Health



Extremely flammable (F+)

Irritating to the eyes. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness.

Environment

Fire

Do not let into sewer system or groundwater.

Extremely flammable

2.2. Label elements

2.2.1 Hazard symbol:



Irritant (Xi)



Extremely flammable (F+)

2.2.2 Hazardous ingredients: -

2.2.3 R-phrases

R12 Extremely flammable.

R36 Irritating to eyes

R66 Repeated exposure may cause skin dryness or cracking

R67 Vapours may cause drowsiness and dizziness

2.2.4 S-phrases

S2 Keep out of the reach of children.

S9 Keep container in a well-ventilated place

S16 Keep away from sources of ignition - No smoking!

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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S46 If swallowed, seek medical advice immediately and show this container or label

2.3. Other hazards No data available.

3. Composition/information on ingredients

3.1. Substances

Classification of substances

CAS-nr.	Chemical name	Content		Classification	
		Max.		According Directive 67/548/EEC	According Regulation 1272/2008 (CLP)
67-64-1	Acetone	60	%	F; Xi R11 R36 R66 R67	Flam. Liq 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066
115-10-6	Dimethylether	40	%	F+; 12	Flam. Gas 1; H220 Press. Gas H280

4. First aid measures

4.1 Description of first aid measures

Inhalation: Seek medical attention immediately. Move the exposed person to fresh air. Give artificial respiration if breathing has stopped. If breathing is difficult give oxygen. Do not use mouth-to-mouth resuscitation.

Skin contact: Wash off with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

Contact with eyes: Rinse eyes immediately with plenty of water, keeping the eye open. Seek medical attention.

Ingestion: Aspiration hazard. Rinse mouth thoroughly with water, then give water to drink. If swallowed, DO NOT induce vomiting. Seek medical attention and show product label.

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

Irritating to the eyes. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness.

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

As a general rule, and in all cases of doubt or when symptoms persist, always seek medical attention.

5. Fire fighting measures

5.1 Extinguishing media

5.1.1. Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.1.2 Unsuitable extinguishing media: Water jet

5.2. Special hazards arising from the substance or mixture

Aerosol can be exposed to heat, will produce high pressure, with risk of explosion. Exposed to fire the product will develop fumes in high toxic concentrations. Explosive propellant-air mix can be formed
Chemical hazards: Carbon oxides

5.3. Advice for fire-fighters

Highly flammable liquid and vapour. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Wear protective clothing, goggles and protective gloves. Avoid contact with skin and eyes. Do not inhale acetone vapor. Use a protective mask with an

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appropriate filter, when you use product in the room, which has a poor ventilation.

6.2 Environmental precautions:

Product should not be allowed to enter into drains, soil and groundwater.

6.3 Methods and material for containment and cleaning up

Spillages shall be absorbed by sand or cloths and stored in suitable container. The waste must be handled in accordance with legal requirements. Use only non-sparking tools.

7. Handling and storage

7.1 Precaution for safe handling:

7.1.1. Protective measures Ensure good ventilation. Keep away from heat. Keep away from sources of ignition- No smoking. Avoid contact with eyes and skin. Take measures to prevent the build up of electrostatic charge. Do not inhale acetone vapor. Make use of protective goggles and protective gloves.

7.1.2. Advice on general occupational hygiene

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Keep in a cool, dry, well-ventilated area in an upright position away from sources of heat and ignition. Do not store in the direct sunlight and not more than +50 °C. Storage: temperature +5°C to +30 °C.

7.3. Specific end use(s)

PENOSIL Premium Foam Cleanerit is used for removing uncured foam from foamgun, window frames or even clothers.

8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit value

Components	CAS-No.	Type form of exposure	Control parameters
Dimethyl ether	115-10-6	TWA	1920 mg/m ³ 1000 ppm
Acetone	67-64-1	TLV/TWA STEL IDLH value Inhalation limits	500ppm 1185 mg/m ³ 2375 mg/m ³ 20 000 ppm 1000 ppm 30 minutes

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

8.2.2. Individual protection measures, such as personal protective equipment

Eye/face protection: During the work make use of protective goggles

Skin protection: During the work make use of protective chemical resistant gloves.
Material: butyl-rubber

Respiratory protection: Use the product only in well-ventilated rooms. Do not inhale fumes.
When using in poorly ventilated area, wear a suitable filter of the mask (ie type A1 in accordance with EN 14387).

8.2.3. Environmental exposure controls Do not let into environment. May cause long-term adverse effects in the aquatic environment.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance
Colour

Aerosol
Pale beige

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Odour	Characteristic
pH	Not applicable
Melting point / freezing point	Not relevant
Boiling point	Over +100 °C
Flash point	Below -20 °C
Evaporation rate	Not relevant
Flammability	Above +100 °C
Explosion limits	Low: 2 % vol, high: 13% vol.
Vapor pressure	5 Bar/+20 °C 10 Bar/+50 °C
Vapor density	Not applicable
Relative density	1.1 g/ml/+20 °C
Solubility in water	insoluble
Solubility in other solvents	Not applicable
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	+ 200 °C
Viscosity	ca 500 cP/+20 °C
Explosive properties	Contains flammable gases.
Oxidizing properties	Not applicable
9.2. Other information	Lack of data

10. Stability and reactivity

10.1. Reactivity The mixture is not reactive under recommended storage and handling conditions (see section 7).

10.2. Chemical stability The mixture is stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

CO_x (carbon dioxide / carbon monoxide), irritating and toxic fumes and gases.

10.4 Conditions to avoid:

An aerosol container is under pressure, keep away from high temperature and ignition sources.

10.5. Incompatible materials: Strong oxidising agents, strong acids

10.6. Hazardous decomposition products:

CO_x (carbon dioxide / carbon monoxide), irritating and toxic fumes and gases.

11. Toxicological information

11.1. Information on toxicological effects

11.1.1. Substances

11.1.1.1. The relevant hazard classes for which information shall be provides, are:

a) Acute toxicity

	Dimethyl ether	Acetone
Acute Oral toxicity	Not applicable	LD50 (rat): 7400 mg/kg
Acute Dermal toxicity	Not applicable	LD50 (rabbit): 20,000 mg/kg
Acute Inhalation toxicity	LC50 (rat): 164 000 ppm Respiratory effects Anaesthetic effects Central nervous system depression narcosis Cardiac irregularities Coma.	Lack of data

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(b) Skin corrosion / irritation

	Dimethyl ether	Acetone
Skin irritation	Not tested on animals Classification: Not classified as irritant Result: No skin irritation Not expected to cause skin irritation based on expert review of the properties of the substance.	Causes irritation if in contact with skin. Repeated or prolonged skin contact may cause dermatitis. Degreasing to the skin.

(c) Serious eye damage / irritation

	Dimethyl ether	Acetone
Eye irritation	Not tested on animals Classification: Not classified as irritant Result: No eye irritation Not expected to cause eye irritation based on expert review of the properties of the substance.	Irritating to eyes. Risk of corneal clouding.

(d) Respiratory or skin sensitization

	Dimethyl ether	Acetone
Sensitization	Not tested on animals Classification: Not a skin sensitizer Not expected to cause eye irritation based on expert review of the properties of the substance.	Vapour will irritate mucous membranes and respiratory tract. Inhalation may cause headaches, dizziness and possible nausea. Narcotic in high concentrations.

(e) Germ cell mutagenicity

	Dimethyl ether	Acetone
Germ cell mutagenicity	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.	Lack of data

(f) Carcinogenicity

	Dimethyl ether	Acetone
Carcinogenicity	Animal testing did not show any carcinogenic effects.	Lack of data

(g) Reproductive toxicity

	Dimethyl ether	Acetone
Reproductive toxicity	No toxicity on reproduction May cause cardiac arrhythmia. Rapid evaporation of the liquid may cause frostbite.	Lack of data

(h) STOT-single exposure

Lack of data

(i) STOT-repeated exposure

Lack of data

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12. Ecological information

12.1. Toxicity

	Dimethyl ether	Acetone
Toxicity to fish	LC50 /96h/ Poecilia reticulata (guppy): > 4000 mg/l	LC50 /96h/ L. macrochirus: 8300 mg/l
Toxicity to aquatic invertebrates	EC50 /48h/ Daphnia: > 4000 mg/l LC50 /48h/ Daphnia: 755,5 mg/l	LC50 /24-48h/ Daphnia magna: 10 mg/l
Chronic toxicity to fish	Due to its physical properties, there is no potential for adverse effects.	Lack of data
Toxicity to bacteria	Lack of data	EC5 /8d/ M. aeruginosa: 530 mg/l

12.2. Persistence and degradability

	Dimethyl ether	Acetone
Persistence and degradability	Method: Closed Bottle test According to the results of tests of biodegradability this product is not readily biodegradable.	This product is biodegradable. 98% / 28 days

12.3. Bio-accumulative potential:

	Dimethyl ether	Acetone
Bioaccumulation	No data available	Is not expected

12.4. Mobility in soil:

	Dimethyl ether	Acetone
Mobility in soil	Koc: 7,759	Acetone is expected to have high mobility in soils based on an estimated Koc: 1. Volatilization from dry soil surfaces is expected based on the vapour pressure of acetone.

12.5. Results of PBT and vPvB assessment:

	Dimethyl ether	Acetone
PBT and vPvB assessment	This substance is not considered to be persistent, bio accumulating nor toxic (PBT). The substance is not considered to be very persistent nor very bio accumulating (vPvB).	No data available

12.6. Other adverse effects

Dimethyl ether	Acetone
Ozone depletion potential: 0 Global warming potential (GWP): 1	Not applicable

13. Disposal considerations

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal:

The product and packages must be handled in accordance with national and local requirements.

13.1.2. Waste treatment options:

Clean bottles are recyclable.

13.2. Additional information

No specific recommendations.

14. Transport information

14.1 UN number

1950

14.2 Packing Group

Unknown

14.3 Road ADR

Inflammable aerosol Class 2/5F

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14.4 Railway RID

14.5 Transport by sea GGVSee/IMDG-Code

14.6 Air transport ICAO-TI/IATA-DGR

Inflammable aerosol Class 2/5F

Aerosol Class 2

Unknown

15. Regulatory information

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

Not applicable

15.2. Chemical safety assessment

Have not been conducted.

16. Other information

16.1. Date of preparation of the latest version of the SDS

Written in the beginning of the safety data sheet.

16.2. Abbreviations and acronyms

TWA: Time Weighted Average

STEL: Short-term exposure limit- average airborne concentration per 15 minute period.

IDLH: The dose immediately dangerous to life and health.

LC50: Lethal Concentration Medium

EC50: effective Concentration Medium

STOT: Specific target organ toxicity

PBP: Persistent, bioaccumulativ and toxic

vPvB: very persistent very bioaccumulative

Flam. Liq: Flammable Liquid Category 2

Eye Irrit. 2: Serious eye damage/ eye irritation- Category 2

Flam. Gas 1: Flammable Gas- category 1

Press. Gas: Gases under pressure

STOT SE 3: Specific target organ toxicity (single exposure): inhalation- Category 3

16.3. Key literature references and sources of data

The safety data sheet meets the requirements of the European Parliament and Council Regulation (EC) No.1907/2006 and the Chemicals Act of the Republic of Estonia and regulation No 130 of Minister of Social Affairs.

16.4. Classification and classification procedure used for mixtures

16.5. Relevant R-phrases and/or H-statements (specified in clause 3)

According Directive 67/548/EEC

R12 Extremely flammable

R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R42/43 May cause sensitization by inhalation and skin contact.

R40 Limited evidence of a carcinogenic effect

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

According Regulation 1272/2008 (CLP)

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.

16.6. Training advice

No specific recommendations.

16.7. Further information

No specific recommendations.