

SAFETY DATA SHEET

PENOSIL Premium Aquarium Silicone

Date: 21.03.2005
Version nr.: 5
Revised: 29.11.2011

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

1.1. Product identifier: PENOSIL Premium Aquarium Silicone

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

Used for aquarium construction, sealing of joints in swimming pools and water parks, Sealing in terrariums and other glass constructions. Sealing of joints exposed to mechanical stress
Sealing of joints which need fast buildup of mechanical properties

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 mixture

According to 67/548/EC Product is classified as non-hazardous.
Health May cause an allergic reaction in sensitive people; irritates the eyes and skin.
Environment Do not let into drains and groundwater.
Fire Do not inhale combustion fumes

2.2. Label elements

2.2.1 Hazard symbol: Product is classified as non-hazardous.
2.2.2 Hazardous ingredients: No ingredients
2.2.3 R-phrases: No phrases needed.
2.2.4 S-phrases: S2 Keep out of the reach of children
S24/25 Avoid contact with skin and eyes
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

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)
17865-07-5	Propyltriacetoxysilane	4	%	C R14 R34	Skin Corr. 1B: H314
4253-34-3	Methylacetoxysilane	1	%	C R14 R22 R34	Acute Tox. 4: H302 Skin Corr. 1B: H314

SAFETY DATA SHEET

PENOSIL Premium Aquarium Silicone

4. First aid measures

4.1 Description of first aid measures

Inhalation:	Move the exposed person to fresh air. Seek medical attention.
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:	Do not induce vomiting. Give water to drink. Seek medical attention and show product label.

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

Inhalation	Lack of data
Skin contact	May be irritating to skin.
Contact with eyes	May be irritating to eyes
Ingestion	Lack of data

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 extinguishing media appropriate the surrounding fire conditions. Use as appropriate: water spray, dry extinguishing media, alcohol-resistant foam, carbon dioxide and sand.

5.1.2 Unsuitable extinguishing media: High volume water jet

5.2. Special hazards arising from the mixture: Do not inhale combustion fumes

5.3. Advice for fire-fighters No specific recommendations.

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 chemical resistant gloves. Avoid contact with skin and eyes. Do not inhale fumes.

6.2 Environmental precautions:

Do not let product into drains and ground water. The waste must be handled in accordance with legal requirements.

6.3 Methods and material for containment and cleaning up

Remove mechanically and handle of according to local/state/federal regulations. Clean any slippery coating that remains using a detergent / soap solution.

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. Make use of protective goggles and protective chemical resistant 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.

SAFETY DATA SHEET

PENOSIL Premium Aquarium Silicone

7.2. Conditions for safe storage, including any incompatibilities

Storage: Keep in a cool, dry, well-ventilated area. Keep the carefully closed cornet at the temperature from +5° C to +25° C, self-life min. 12 months.

7.3. Specific end use(s)

Used for aquarium construction, sealing of joints in swimming pools and water parks, Sealing in terrariums and other glass constructions. Sealing of joints exposed to mechanical stress
Sealing of joints which need fast buildup of mechanical properties

8. Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit value Lack of data

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 (EN 166)

Skin protection: During the work make use of protective chemical resistant gloves (EN 374)

Respiratory protection: Ensure adequate ventilation

8.2.3. Environmental exposure controls Do not let into environment.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Paste-like
Colour	Transparent, white, black
Odour	Strong
pH	Not applicable
Melting point / freezing point	Not relevant
Boiling point	Not relevant
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	Not applicable
Explosion limits	Not applicable
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	0,95 g/cm ³ /+20 °C colorless 1,02 g/cm ³ /+20 °C colored
Solubility in water	Insoluble
Solubility in other solvents	Not relevant
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Approx. 400 °C
Decomposition temperature	Not applicable
Viscosity	800000 mPa·s
Explosive properties	Not applicable
Oxidizing properties	Not applicable

9.2. Other information

Lack of data

SAFETY DATA SHEET

PENOSIL Premium Aquarium Silicone

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** Acetic acid is released during drying.
- 10.4 Conditions to avoid:** Keep away of heat and humidity
- 10.5. Incompatible materials:** On reaction with water, acids and bases form acetic acid.
- 10.6. Hazardous decomposition products:** In case of fire, the product can create hazard gases. Forms acetic acid under the influence of moisture.

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

Lack of data

(b) Skin corrosion / irritation

In contact with moisture forms a small amount of acetic acid, which irritates the skin and mucous membranes.

(c) Serious eye damage / irritation

In contact with moisture forms a small amount of acetic acid, which irritates the eyes.

(d) Respiratory or skin sensitization

May cause sensitivity in contact with skin.

(e) Germ cell mutagenicity Lack of data

(f) Carcinogenicity Lack of data

(g) Reproductive toxicity Lack of data

(h) STOT-single exposure Lack of data

(i) STOT-repeated exposure Lack of data

12. Ecological information

12.1. Toxicity

According to experience toxicity to fish is not likely.

12.2. Persistence and degradability Cured silicone is not biodegradable.

12.3. Bio-accumulative potential: Not likely

12.4. Mobility in soil: Not likely

12.5. Results of PBT and vPvB assessment: Lack of data

12.6. Other adverse effects Lack of data

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 packages can be recycled

13.2. Additional information No specific recommendations.

14. Transport information

SAFETY DATA SHEET

PENOSIL Premium Aquarium Silicone

14.1 UN number	Not known
14.2 Packing Group	Not known
14.3 Road ADR	There are no restrictions
14.4 Railway RID	There are no restrictions
14.5 Transport by sea GGVSee/IMDG-Code	There are no restrictions
14.6 Air transport ICAO-TI/IATA-DGR	There are no restrictions

15. Regulatory information

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

Not applicable

15.2. Chemical safety assessment

Chemical safety assessment is not needed, because product includes non-hazardous substances.

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

LC50: Lethal Concentration Medium

EC50: effective Concentration Medium

STOT: Specific target organ toxicity

PBT: Persistent, bioaccumulativ and toxic

vPvB: very persistent very bioaccumulative

Acute Tox. 4: Acute Toxicity Category 4

Skin Corr. 1B: Skin Corrosion Category 1B

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

R14 Reacts violently with water

R22 Harmful if swallowed

R34 Causes burns

According Regulation 1272/2008 (CLP)

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

16.6. Training advice

No specific recommendations.

16.7. Further information

No specific recommendations.