

MATERIAL SAFETY DATA SHEET

PENOSIL Premium Seal&Fix

Date: 25.03.2011
Version nr.: 4
Revised: 14.01.2012

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

1.1. Product identifier: PENOSIL Premium Seal&Fix

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

Interior and exterior joining and bonding. Multiple fixings construction: plinths, profiles, insulation and decorative panels. Excellent adherence on metals supports (aluminium, galvanized steel, copper, glass, PVC, building materials concrete, wood, bricks, stones). Adheres on wet supports. Chemical resistance: Resists fresh, salted and hard water as well as aqueous household agents, spills of hydrocarbons, diluted acids and bases. The product does not withstand solvents or a permanent contact swimming pool water. Excellent resistance to UV, ageing and weathering.

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 Product is classified as non-hazardous.

Health Avoid contact with 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/S25 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)
13822-56-5	3-(trimethoxysilyl)propylamine	1	%	Xi R38 R41	Skin Irrit. 2: H315 Eye Dam. 1: H318
1760-24-3	N-(3-(Trimethoxysilyl)propyl) ethylendiamin	0,6	%	Xi R36/38 R43 R52/53	Skin Irrit. 2: H315 Eye Irrit. 2: H319 Skin Sens. 1: H317 Aquatic Chronic 3: H412

MATERIAL SAFETY DATA SHEET

PENOSIL Premium Seal&Fix

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 or give water to drink. Seek medical attention and show product label.

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

Inhalation	May be irritating to respiratory organs.
Skin contact	May be irritating to skin.
Contact with eyes	May be irritating to eyes
Ingestion	No data available

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, foam and carbon dioxide.
5.1.2 Unsuitable extinguishing media:	High volume water jet

5.2. Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon, formaldehyde and toxic pyrolysis products.

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. Prevent leaking into surface and ground-water

6.3 Methods and material for containment and cleaning up

Cured material can be removed mechanically, surfaces can be washed.

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.
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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. Keep the carefully closed cornet at the temperature from +5° C to +25° C, self-life min. 12 months.

MATERIAL SAFETY DATA SHEET

PENOSIL Premium Seal&Fix

7.3. Specific end use(s)

Interior and exterior joining and bonding. Multiple fixings construction: plinths, profiles, insulation and decorative panels. Excellent adherence on metals supports (aluminium, galvanized steel, copper, glass, PVC, building materials concrete, wood, bricks, stones). Adheres on wet supports. Chemical resistance: Resists fresh, salted and hard water as well as aqueous household agents, spills of hydrocarbons, diluted acids and bases. The product does not withstand solvents or a permanent contact swimming pool water. Excellent resistance to UV, ageing and weathering.

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

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

Respiratory protection: Use the product only in well-ventilated rooms.

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	White
Odour	Light
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	1,43 g/ml g/cm ³ /+20 °C
Solubility in water	Insoluble in water
Solubility in other solvents	Not relevant
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity	Not applicable
Explosive properties	Not applicable
Oxidizing properties	Not oxidizing

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).

MATERIAL SAFETY DATA SHEET

PENOSIL Premium Seal&Fix

10.3. Possibility of hazardous reactions In case of fire, the product can create hazardous gases.

10.4 Conditions to avoid: Avoid strong heat. Protect from humidity. Product may hydrolyse at high temperature and contact with moisture.

10.5. Incompatible materials: Avoid contact with strong alkalis and strong acids. Water

10.6. Hazardous decomposition products: In case of fire, the product can create hazard 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	Lack of data
(b) Skin corrosion / irritation	Lack of data
(c) Serious eye damage / irritation	Lack of data
(d) Respiratory or skin sensitization	Lack of data
(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	Lack of data
12.2. Persistence and degradability	Partially biologically degradable
12.3. Bio-accumulative potential:	Not to be expected
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: Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance

13.2. Additional information

No specific recommendations.

14. Transport information

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 substance or mixture

Not applicable

15.2. Chemical safety assessment

MATERIAL SAFETY DATA SHEET

PENOSIL Premium Seal&Fix

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

LC50: Lethal Concentration Medium

EC50: effective Concentration Medium

STOT: Specific target organ toxicity

PBT: Persistent, bioaccumulativ and toxic

vPvB: very persistent very bioaccumulative

Skin Irrit. 2: Skin Irritation Category 2

Eye Dam. 1: Eye Damage Category 1

Eye Irrit. 2: Eye Irritation Category 2

Skin Sens. 1: Skin Sensitisation Category 1

Aquatic Chronic 3: Aquatic Chronic 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

R36/38 Irritating to eyes and skin

R38 Irritating to skin

R41 Risk of serious damage to eyes

R43 May cause sensitization by skin contact

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

According Regulation 1272/2008 (CLP)

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H319 Causes serious eye irritation

H412 Harmful to aquatic life with long lasting effects

16.6. Training advice

No specific recommendations.

16.7. Further information

No specific recommendations.