

SAFETY DATA SHEET

PENOSIL Premium FastFix Aqua

Date: 04.01.2008
Version nr.: 3
Revised: 14.01.2012

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

1.1. Product identifier: PENOSIL Premium FastFix Aqua

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

PENOSIL Premium FastFix Aqua - UNDERWATER REPAIR EPOXY PUTTY STICK repairs and rebuilds anything made of fiberglass, metal, wood and ceramic. It works on wet surfaces, even underwater.

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



Irritating (Xi)

R43 May cause sensitization by skin contact

R36/38 Irritating to eyes and skin

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

Health

Harmful in contact with skin and if swallowed. Causes burns. In contact with skin may cause sensitization. Irritating eyes and skin. Includes some substances that are classified in European Union as cancer genic, mutagenic and reproduction toxically. If inhaled may cause irritation.

Environment

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Fire Do not inhale combustion fumes.

2.2. Label elements

2.2.1 Hazard symbol:



Irritating (Xi)

2.2.2 Hazardous ingredients: Bisphenol A-epichlorohydrin

2.2.3 R-phrases

R43 May cause sensitization by skin contact

R36/38 Irritating to eyes and skin

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

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2.2.4 S-phrases

S2 Keep out of the reach of children.

S24/25 Avoid contact with skin and eyes

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

S28 After contact with skin, wash immediately with plenty of water

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

S61 Avoid release to the environment. Refer to special instructions/safety data sheet

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)
25068-38-6 / 25085-99-8	Bisphenol A-epichlorohydrin	8.25	%	Xi R36/38 R43 N R51/53	Lack of data
108-95-2	Phenol	< 0.5	%	Muta. Cat. 3: R68 T R23/24/25 C R34 Xn R48/20/21/22	Lack of data
112-24-3	Triethylenetetramine	< 0.5	%	Xn R43 R53 R52 C R21 R34	Lack of data

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. Rinse mouth with water several times. Seek medical attention and show product label.

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

Inhalation: May cause irritation to respiratory organs, sore throat, cough, breathlessness. Head ache.

Skin contact: Redness, skin burn

Contact with eyes: redness, crying effect, impaired vision, loss of vision.

Ingestion: Corrosion risk of gastro-intestinal tract, cough, dizziness, vomiting, sore throat

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.

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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: Not known

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 combustion 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. The waste must be handled in accordance with legal requirements.

7. Handling and storage

7.1 Precaution for safe handling:

7.1.1. Protective measures Ensure good ventilation. Keep away from heat and source of ignition – do not smoke. 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.

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 +30° C.

7.3. Specific end use(s)

PENOSIL Premium FastFix Aqua - UNDERWATER REPAIR EPOXY PUTTY STICK repairs and rebuilds anything made of fiberglass, metal, wood and ceramic. It works on wet surfaces, even underwater.

8. Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit value

Chemical	Exposure limit value	Exposure limit value (short-term)
Phenol	2 ppm (7,8 mg/m ³)	-
Epichlorohydrin	0,5 ppm (1,9 mg/m ³)	- 1ppm (4 mg/m ³)

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).

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Skin protection: During the work make use of protective chemical resistant gloves (EN-374). Use protective clothing and soft footwear (EN 344).

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	viscous paste
Colour	green blue
Odour	Specific
pH	not relevant
Melting point / freezing point	Not relevant
Boiling point	+100 °C
Flash point	not explosive
Evaporation rate	Not applicable
Flammability	Not applicable
Explosion limits	not explosive
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	1,96 – 2,02 g/cm ³ /+20 °C
Solubility in water	Soluble 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 applicable

9.2. Other information Lack of information

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 In case of fire may release hazardous gas.

10.4 Conditions to avoid: Keeping consistently over 45 °C the polymer starts to decompose.

10.5. Incompatible materials: Sodium hypochlorite, organic acids, acids. Nitric acid, oxidizers, peroxides react abruptly.

10.6. Hazardous decomposition products: Ammonia. In case of fire: CO, NO_x and nitric acid.

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

LD₅₀ oral (rat) (mg/kg): not known

LD₅₀ dermal, (rabbit) (mg/kg): > 19 000

(b) Skin corrosion / irritation

Repeated or prolonged skin contact may cause skin irritation and / or allergies.

(c) Serious eye damage / irritation

Lack of data

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(d) Respiratory or skin sensitization

May cause sensitization in contact with skin.

(e) Germ cell mutagenicity

The European Union has classified phenol as a third category of mutagen, which means that substances and mixtures that fall into this category, may induce hereditary genetic defects or increase the incidence of genetic defects.

(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

Do not allow to enter the environment. Harmful to aquatic organisms, may cause long-term adverse effects.

12.2. Persistence and degradability

Cured material does not degradable

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: 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

Chemical safety assessment is not needed.

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

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STOT: Specific target organ toxicity

PBT: Persistent, bioaccumulativ and toxic

vPvB: very persistent very bioaccumulative

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 to directive 67/548/EEC

R21 Harmful in contact with skin

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed

R34 Causes burns

R36/38 Irritating to eyes and skin

R43 May cause sensitisation by skin contact

R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed

R51 Toxic to aquatic organisms

R52 Harmful to aquatic organisms

R53 May cause long-term adverse effects in the aquatic environment

R68 Possible risk of irreversible effects

According to regulation 1272/2008 (CLP) No H-statements

16.6. Training advice

No specific recommendations.

16.7. Further information

No specific recommendations.