



PU FLEX 1000 ELASTIC POLYURETHANE ROOF INSULATION MEMBRANE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: PU FLEX 1000

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

Relevant uses: Waterproofing

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet: EVOCHEM S.A.

Tzaverdella Place 133 41 PHILI , ATTICA - GREECE Phone.: 0030 210 5590460 , 0030 210 5590155 -Fax: 0030 210 6254737 , 0030 210 5590244 info@evochem.gr; vmergoupis@evochem.gr; sales@evochem.gr www.evochem.gr g Center 2107703777

1.4 Emergency telephone number: National Poisoning Center 2107793777

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

This product contains less than 1% respirable crystalline silica, so it does not require classification

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 4: Acute toxicity, Category 4, H312+H332 Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 Skin Irrit. 2: Skin irritation, Category 2, H315 STOT RE 2: Specific target organ toxicity if swallowed, repeated exposure, Category 2, H373

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Warning



Hazard statements:

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Liq. 3: H226 - Flammable liquid and vapour Skin Irrit. 2: H315 - Causes skin irritation STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral)

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P264: Wash thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P370+P378: In case of fire: Use ABC powder extinguisher to extinguish

P501: Dispose of contents/container according to the separated collection system used in your municipality

Supplementary information:

EUH204: Contains isocyanates. May produce an allergic reaction

Substances that contribute to the classification

Xylene

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

** Changes with regards to the previous version





SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture composed of polyurethane in solvents

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
471-34-1 207-439-9 Non-applicable 01-2119486795-18- XXXX	Calcium Carbonate(1) Not classified Regulation 1272/2008 Image: Control of the second	25 - <50 %
1330-20-7 215-535-7 601-022-00-9 01-2119488216-32- XXXX	Xylene(1) Self-classified Regulation 1272/2008 Acute Tox. 4: H312+H332; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger Image: Comparison of	10 - <25 %
13463-67-7 236-675-5 Non-applicable 01-2119489379-17- XXXX	Titanium dioxide(1) Not classified Regulation 1272/2008 Image: Classified state	2,5 - <10 %
112945-52-5 Non-applicable Non-applicable 01-2119379499-16- XXXX	Sintetic Silicon Dioxide ⁽¹⁾ Not classified Regulation 1272/2008 Image: Classified	1 - <2,5 %
21645-51-2 244-492-7 Non-applicable 01-2119529246-39- XXXX	Aluminium hydroxide(1) Not classified Regulation 1272/2008 Image: Classified state st	<1 %
7631-86-9 231-545-4 Non-applicable 01-2119379499-16- XXXX	Silicon dioxide (RCS < 1%) ⁽¹⁾ Not classified Regulation 1272/2008 Image: Classified of the second	<1 %
26471-62-5 247-722-4 615-006-00-4 01-2119454791-34- XXXX	Toluene Diisocyanate(1) ATP CLP00 Regulation 1272/2008 Acute Tox. 2: H330; Aquatic Chronic 3: H412; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger	<1 %
77-58-7 201-039-8 050-030-00-3 01-2119496068-27- XXXX	Dibutyltin Dilaurate(1) Self-classified Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Muta. 2: H341; Repr. 1B: H360; Skin Corr. 1C: H314; Skin Sens. 1: H317; STOT RE 1: H372; STOT SE 1: H370 - Danger (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	<1 %

⁽¹⁾ Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

** Changes with regards to the previous version

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.





SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂). IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation





SECTION 7: HANDLING AND STORAGE (continued)

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.:5 °CMaximum Temp.:30 °CMaximum time:12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

		vironmental limits	
Xylene	IOELV (8h)	50 ppm	221 mg/m ³
CAS: 1330-20-7 EC: 215-535-7	IOELV (STEL)	100 ppm	442 mg/m ³
Dibutyltin Dilaurate	IOELV (8h)		
CAS: 77-58-7 EC: 201-039-8	IOELV (STEL)		

DNEL (Workers):

		Short	exposure	Long	exposure
Identification		Systemic	Local	Systemic	Local
Calcium Carbonate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 471-34-1	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 207-439-9	Inhalation	Non-applicable	Non-applicable	10 mg/m ³	Non-applicable
Xylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	289 mg/m ³	289 mg/m ³	77 mg/m ³	Non-applicable
Titanium dioxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 13463-67-7	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 236-675-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	10 mg/m ³
Sintetic Silicon Dioxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 112945-52-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: Non-applicable	Inhalation	Non-applicable	Non-applicable	4 mg/m ³	Non-applicable





PU FLEX 1000 ELASTIC POLYURETHANE ROOF INSULATION MEMBRANE

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Aluminium hydroxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 21645-51-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 244-492-7	Inhalation	Non-applicable	Non-applicable	Non-applicable	3,59 mg/m ³
Silicon dioxide (RCS < 1%)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7631-86-9	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 231-545-4	Inhalation	Non-applicable	Non-applicable	4 mg/m ³	Non-applicable
Toluene Diisocyanate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 26471-62-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 247-722-4	Inhalation	0,14 mg/m ³	0,14 mg/m ³	0,035 mg/m ³	0,035 mg/m ³
Dibutyltin Dilaurate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 77-58-7	Dermal	1 mg/kg	Non-applicable	0,2 mg/kg	Non-applicable
EC: 201-039-8	Inhalation	0,07 mg/m ³	Non-applicable	0,01 mg/m ³	Non-applicable

DNEL (General population):

		Short	exposure	Long	exposure
Identification		Systemic	Local	Systemic	Local
Calcium Carbonate	Oral	6,1 mg/kg	Non-applicable	6,1 mg/kg	Non-applicable
CAS: 471-34-1	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 207-439-9	Inhalation	Non-applicable	Non-applicable	10 mg/m ³	Non-applicable
Xylene	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	108 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	Non-applicable	Non-applicable	14,8 mg/m ³	Non-applicable
Titanium dioxide	Oral	Non-applicable	Non-applicable	700 mg/kg	Non-applicable
CAS: 13463-67-7	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 236-675-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable
Aluminium hydroxide	Oral	Non-applicable	Non-applicable	2,37 mg/kg	Non-applicable
CAS: 21645-51-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 244-492-7	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable
Dibutyltin Dilaurate	Oral	0,01 mg/kg	Non-applicable	0,002 mg/kg	Non-applicable
CAS: 77-58-7	Dermal	0,5 mg/kg	Non-applicable	0,08 mg/kg	Non-applicable
EC: 201-039-8	Inhalation	0,02 mg/m ³	Non-applicable	0,003 mg/m ³	Non-applicable

PNEC:

Identification				
Calcium Carbonate	STP	100 mg/L	Fresh water	Non-applicable
CAS: 471-34-1	Soil	Non-applicable	Marine water	Non-applicable
EC: 207-439-9	Intermittent	Non-applicable	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
Xylene	STP	6,58 mg/L	Fresh water	0,327 mg/L
CAS: 1330-20-7	Soil	2,31 mg/kg	Marine water	0,327 mg/L
EC: 215-535-7	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg
Titanium dioxide	STP	100 mg/L	Fresh water	0,127 mg/L
CAS: 13463-67-7	Soil	100 mg/kg	Marine water	1 mg/L
EC: 236-675-5	Intermittent	0,61 mg/L	Sediment (Fresh water)	1000 mg/kg
	Oral	1667 g/kg	Sediment (Marine water)	100 mg/kg
Aluminium hydroxide	STP	20 mg/L	Fresh water	Non-applicable
CAS: 21645-51-2	Soil	Non-applicable	Marine water	Non-applicable
EC: 244-492-7	Intermittent	Non-applicable	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
Toluene Diisocyanate	STP	1 mg/L	Fresh water	0,0125 mg/L
CAS: 26471-62-5	Soil	1 mg/kg	Marine water	0,00125 mg/L
EC: 247-722-4	Intermittent	0,125 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable





PU FLEX 1000 ELASTIC POLYURETHANE ROOF INSULATION MEMBRANE

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Dibutyltin Dilaurate	STP	100 mg/L	Fresh water	0,000463 mg/L
CAS: 77-58-7	Soil	Non-applicable	Marine water	0,0000463 mg/L
EC: 201-039-8	Intermittent	0,00463 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	0,2 g/kg	Sediment (Marine water)	Non-applicable

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases, vapours and particles		EN 149:2001+A1:2009 EN 405:2001+A1:2009	Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected.
C	6 11 1 1			

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	NON-disposable chemical protective gloves		EN ISO 374-1:2016 EN 16523-1:2015 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

"As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"

D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Face shield		EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties		EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties		EN ISO 13287:2012 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011





PU FLEX 1000 ELASTIC POLYURETHANE ROOF INSULATION MEMBRANE

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	13 % weight
V.O.C. density at 20 °C:	0,18 kg/m ³ (0,18 g/L)
Average carbon number:	8
Average molecular weight:	106,2 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Fluid
Colour:	Characteristic
Odour:	Aromatic
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	138 °C
Vapour pressure at 20 °C:	744 Pa
Vapour pressure at 50 °C:	4114,89 Pa (4,11 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1,4 kg/m³
Relative density at 20 °C:	Non-applicable *
Dynamic viscosity at 20 °C:	2500 cP
Kinematic viscosity at 20 °C:	18000 cSt
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Flammability:	
Flash Point:	25 °C
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	465 °C
Lower flammability limit:	Not available
*Not relevant due to the nature of the product, not providing	information property of its hazards.

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Revised: 26/02/2020





PU FLEX 1000 ELASTIC POLYURETHANE ROOF INSULATION MEMBRANE

SECT	ECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)				
	Upper flammability limit:	Not available			
	Explosive:				
	Lower explosive limit:	Non-applicable *			
	Upper explosive limit:	Non-applicable *			
9.2	Other information:				
	Surface tension at 20 °C:	Non-applicable *			
	Refraction index:	Non-applicable *			
	*Not relevant due to the nature of the product, not providing information property of its hazards.				

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

	Shock and friction Contact with air Not applicable Not applicable		Increase in temperature	Sunlight	Humidity
			Risk of combustion	Avoid direct impact	Not applicable
	Incompatible materials:				
10.5	Incompatible materials:				
10.5	Incompatible materials: Acids	Water	Oxidising materials	Combustible materials	Others

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

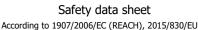
11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
 - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
 - Acute toxicity : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Produces eye damage after contact.







SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.
 - IARC: Toluene Diisocyanate (2B); Titanium dioxide (2B); Silicon dioxide (RCS < 1%) (3); Xylene (3)
 - Mutagenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with mutagenic effects. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

- Cutaneous: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous as a result of a single exposure. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acı	Acute toxicity	
Titanium dioxide	LD50 oral	10000 mg/kg	Rat
CAS: 13463-67-7	LD50 dermal	10000 mg/kg	Rabbit
EC: 236-675-5	LC50 inhalation	Non-applicable	
Sintetic Silicon Dioxide	LD50 oral	10000 mg/kg	Rat
CAS: 112945-52-5	LD50 dermal	5100 mg/kg	Rabbit
EC: Non-applicable	LC50 inhalation	Non-applicable	
Xylene	LD50 oral	2100 mg/kg	Rat
CAS: 1330-20-7	LD50 dermal	1100 mg/kg (ATEi)	Rat
EC: 215-535-7	LC50 inhalation	11 mg/L (4 h) (ATEi)	
Calcium Carbonate	LD50 oral	6450 mg/kg	Rat
CAS: 471-34-1	LD50 dermal	Non-applicable	
EC: 207-439-9	LC50 inhalation	Non-applicable	
Aluminium hydroxide	LD50 oral	5100 mg/kg	Rat
CAS: 21645-51-2	LD50 dermal	Non-applicable	
EC: 244-492-7	LC50 inhalation	Non-applicable	
Silicon dioxide (RCS < 1%)	LD50 oral	5100 mg/kg	Rat
CAS: 7631-86-9	LD50 dermal	5100 mg/kg	Rabbit
EC: 231-545-4	LC50 inhalation	Non-applicable	
Toluene Diisocyanate	LD50 oral	3360 mg/kg	Rat
CAS: 26471-62-5	LD50 dermal	Non-applicable	
EC: 247-722-4	LC50 inhalation	Non-applicable	
Dibutyltin Dilaurate	LD50 oral	175 mg/kg	Rat
CAS: 77-58-7	LD50 dermal	Non-applicable	
EC: 201-039-8	LC50 inhalation	Non-applicable	





PU FLEX 1000 ELASTIC POLYURETHANE ROOF INSULATION MEMBRANE

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

Identification		Acute toxicity	Species	Genus
Calcium Carbonate	LC50	56000 mg/L (96 h)	Gambussia afinis	Fish
CAS: 471-34-1	EC50	Non-applicable		
EC: 207-439-9	EC50	Non-applicable		
Xylene	LC50	13.5 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 1330-20-7	EC50	3.4 mg/L (48 h)	Ceriodaphnia dubia	Crustacean
EC: 215-535-7	EC50	10 mg/L (72 h)	Skeletonema costatum	Algae
Sintetic Silicon Dioxide	LC50	10000 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 112945-52-5	EC50	10000 mg/L (24 h)	Daphnia magna	Crustacean
EC: Non-applicable	EC50	Non-applicable		
Aluminium hydroxide	LC50	100 mg/L (96 h)	Salmo trutta	Fish
CAS: 21645-51-2	EC50	Non-applicable		
EC: 244-492-7	EC50	Non-applicable		
Silicon dioxide (RCS < 1%)	LC50	5000 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 7631-86-9	EC50	10000 mg/L (24 h)	Daphnia magna	Crustacean
EC: 231-545-4	EC50	440 mg/L (72 h)	Selenastrum capricornutum	Algae
Foluene Diisocyanate	LC50	133 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 26471-62-5	EC50	12.5 mg/L (48 h)	Daphnia magna	Crustacean
EC: 247-722-4	EC50	4300 mg/L (96 h)	Chlorella vulgaris	Algae
Dibutyltin Dilaurate	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 77-58-7	EC50	0.1 - 1 mg/L		Crustacean
EC: 201-039-8	EC50	0.1 - 1 mg/L		Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegrada	bility
Xylene	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 1330-20-7	COD	Non-applicable	Period	28 days
EC: 215-535-7	BOD5/COD	Non-applicable	% Biodegradable	88 %
Dibutyltin Dilaurate	BOD5	0.00054 g O2/g	Concentration	100 mg/L
CAS: 77-58-7	COD	Non-applicable	Period	28 days
EC: 201-039-8	BOD5/COD	Non-applicable	% Biodegradable	50 %

12.3 Bioaccumulative potential:

Identification	Bioaccu	mulation potential
Xylene	BCF	9
CAS: 1330-20-7	Pow Log	2.77
EC: 215-535-7	Potential	Low
Dibutyltin Dilaurate	BCF	31
CAS: 77-58-7	Pow Log	3.12
EC: 201-039-8	Potential	Moderate

12.4 Mobility in soil:

Identification	Absorption/desorption		Volat	ility
Xylene	Кос	202	Henry	524,86 Pa·m ³ /mol
CAS: 1330-20-7	Conclusion	Moderate	Dry soil	Yes
EC: 215-535-7	Surface tension	Non-applicable	Moist soil	Yes

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS





PU FLEX 1000 ELASTIC POLYURETHANE ROOF INSULATION MEMBRANE

SECTION 13: DISPOSAL CONSIDERATIONS (continued)

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	Dangerous

Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:

 14.1 UN number: UN1263 14.2 UN proper shipping name: PAINT 14.3 Transport hazard class(es): 3 Labels: 3 14.4 Packing group: III 14.5 Environmental hazards: No 14.6 Special precautions for user Special regulations: 163, 367, 650 Tunnel restriction code: D/E Physico-Chemical properties: see section 9 Limited quantities: 5 L 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: 14.3 Transport hazard class(es): 3 Labels: 3 14.4 Packing group: III 14.5 Environmental hazards: Non-applicable 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: 14.1 UN number: UN1263 14.2 UN proper shipping name: PAINT 14.3 Transport hazard class(es): 3 Labels: 3 14.4 Packing group: III 14.5 Environmental hazards: No 14.6 Special precautions for user Special regulations: 223, 955, 163, 367 EmS Codes: F-E, S-E Physico-Chemical properties: see section 9 Limited quantities: 5 L Special regulations: 223, 955, 163, 367 EmS Codes: F-E, S-E Physico-Chemical properties: see section 9 Limited quantities: 5 L Segregation group: Non-applicable Non-applicable Non-applicable				
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Transport of dangerous goods by air:				
			IBC Code:	
With regard to IATA/ICAO 2020:	Transport of da	ngerou	is goods by air:	
	With regard to IA		2020.	

With regard to IATA/ICAO 2020:





PU FLEX 1000 ELASTIC POLYURETHANE ROOF INSULATION MEMBRANE

SECTION 14: TRANSP	ECTION 14: TRANSPORT INFORMATION (continued)			
	14.1	UN number:	UN1263	
Ste	14.2	UN proper shipping name:	PAINT	
	14.3	Transport hazard class(es):	3	
		Labels:	3	
3	14.4	Packing group:	III	
•	14.5	Environmental hazards:	No	
	14.6	Special precautions for user		
		Physico-Chemical properties:	see section 9	
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable	

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Silicon dioxide (RCS < 1%) (Product-type 18)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Contains Dibutyltin Dilaurate

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c		5000	50000
		/	

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

metallic glitter intended mainly for decoration,

- artificial snow and frost,
- "whoopee" cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

'For professional users only'.

Shall not be used in:

-tricks and jokes,

-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Occupational exposure to respirable crystalline silica must be controlled pursuant to Directive (EU) 2019/130.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The provider has carried out a chemical safety assessment





PU FLEX 1000 ELASTIC POLYURETHANE ROOF INSULATION MEMBRANE

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3):

· Removed substances

Polyether polyol

Texts of the legislative phrases mentioned in section 2:

H373: May cause damage to organs through prolonged or repeated exposure (Oral)

H315: Causes skin irritation

H312+H332: Harmful in contact with skin or if inhaled

H226: Flammable liquid and vapour

H319: Causes serious eye irritation

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 2: H330 - Fatal if inhaled Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled Aquatic Acute 1: H400 - Very toxic to aquatic life Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways Carc. 2: H351 - Suspected of causing cancer Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Liq. 3: H226 - Flammable liquid and vapour Muta. 2: H341 - Suspected of causing genetic defects Repr. 1B: H360 - May damage fertility or the unborn child Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled Skin Corr. 1C: H314 - Causes severe skin burns and eye damage Skin Irrit. 2: H315 - Causes skin irritation Skin Sens. 1: H317 - May cause an allergic skin reaction STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure. (Oral) STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral) STOT SE 1: H370 - Causes damage to organs STOT SE 3: H335 - May cause respiratory irritation

Classification procedure:

STOT RE 2: Calculation method Skin Irrit. 2: Calculation method Acute Tox. 4: Calculation method Flam. Liq. 3: Calculation method (2.6.4.3) Eye Irrit. 2: Calculation method

Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LOg-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

Revised: 26/02/2020

- CONTINUED ON NEXT PAGE -

Version: 34 (Replaced 33)





PU FLEX 1000 ELASTIC POLYURETHANE ROOF INSULATION MEMBRANE

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -