

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 1 of 19

Print date: 22/01/2026

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

1.1 Product identifier.

Product Name: FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE
Product Code: STPURUREAFLEX
UFI: GA50-9039-S00Q-UQW4

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

Revestimiento poliuretano alifático de 2 C para uso interior y exterior

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: **PINTURAS AYELENSES, S.L.**
Address: POLÍGONO SAN JOSÉ, S/N
City: AIELO DE MALFERIT
Province: VALENCIA
Telephone: 962360292
Fax: 962360601
E-mail: info@pinturaspinay.com
Web: www.pinturaspinay.com

1.4 Emergency telephone number: 962360292 (Only available during office hours; Monday-Friday; 08:00-18:00)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture.

In accordance with Regulation (EC) No 1272/2008:

Acute Tox. 4 : Harmful if inhaled.
Flam. Liq. 3 : Flammable liquid and vapour.
Skin Irrit. 2 : Causes skin irritation.
Skin Sens. 1 : May cause an allergic skin reaction.
STOT SE 3 : May cause respiratory irritation.

2.2 Label elements.

Labelling in accordance with Regulation (EC) No 1272/2008:

Pictograms:



Signal Word:

Warning

Hazard statements:

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 2 of 19

Print date: 22/01/2026

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P321	Specific treatment (see ... on this label).
P370+P378	In case of fire: Use... to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.

EUH statements:

EUH204 Contains isocyanates. May produce an allergic reaction.
As from 24 August 2023 adequate training is required before industrial or professional use.

Contains:

2-methylpropan-2-ol, tert-butyl alcohol
acetone, propan-2-one, propanone
n-butyl acetate
2-methoxy-1-methylethyl acetate
xylene
Hexamethylene diisocyanate, oligomers

2.3 Other hazards.

The mixture does not contain substances classified as PBT.
The mixture does not contain substances classified as vPvB.
The mixture does not contain any endocrine disrupting properties substances.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	Specifics concentration limits and Acute toxicity estimate
CAS No: 28182-81-2 EC No: 500-060-2 Registration No: 01- 2119485796-17-XXXX	[1] Hexamethylene diisocyanate, oligomers	20 - 25 %	Acute Tox. 4, H332 - Skin Sens. 1, H317 - STOT SE 3, H335	-
Index No: 601-022- 00-9 CAS No: 1330-20-7 EC No: 215-535-7 Registration No: 01- 2119488216-32-XXXX	[1] xylene	10 - 25 %	Acute Tox. 4 *, H312 - Acute Tox. 4 *, H332 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315	-
Index No: 607-025- 00-1 CAS No: 123-86-4 EC No: 204-658-1 Registration No: 01- 2119485493-29-XXXX	n-butyl acetate	1 - 20 %	Flam. Liq. 3, H226 - STOT SE 3, H336, EUH066	-
Index No: 607-195- 00-7 CAS No: 108-65-6 EC No: 203-603-9 Registration No: 01- 2119475791-29-XXXX	[1] 2-methoxy-1-methylethyl acetate	1 - 20 %	Flam. Liq. 3, H226 - STOT SE 3, H336	-

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 3 of 19

Print date: 22/01/2026

Index No: 603-005-00-1 CAS No: 75-65-0 EC No: 200-889-7 Registration No: 01-2119444321-51-XXXX	2-methylpropan-2-ol, tert-butyl alcohol	1 - 10 %	Acute Tox. 4 *, H332 - Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H335	-
Index No: 606-001-00-8 CAS No: 67-64-1 EC No: 200-662-2 Registration No: 01-2119471330-49-XXXX	[1] acetone, propan-2-one, propanone	1 - 10 %	Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H336, EUH066	-
Index No: 615-011-00-1 CAS No: 822-06-0 EC No: 212-485-8 Registration No: 01-2119457571-37-XXXX	hexamethylene-di-isocyanate	0.1 - 0.5 %	Acute Tox. 3 *, H331 - Eye Irrit. 2, H319 - Resp. Sens. 1, H334 - Skin Irrit. 2, H315 - Skin Sens. 1, H317 - STOT SE 3, H335	Resp. Sens. 1, H334: C ≥ 0,5 % Skin Sens. 1, H317: C ≥ 0,5 %
CAS No: 34140-91-5 EC No: 251-846-4 Registration No: 01-2119974119-29-XXXX	Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)	0.1 - 1 %	Aquatic Acute 1, H400 (M=10) - Aquatic Chronic 2, H411 - Eye Dam. 1, H318 - Skin Irrit. 2, H315 - STOT RE 2, H373	-

(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

* See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

[1] Substance with a European Union exposure limit in the workplace (see section 8.1).

[2] Substance with a national workplace exposure limit (see section 8.1).

SECTION 4: FIRST AID MEASURES.

IRRITANT MIXTURE. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance. The use of personal protective equipment is recommended for people providing first aid (see section 8).

Eye contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

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

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate.

Repeated or prolonged eye contact may cause stinging, tearing, redness, swelling, and blurred vision.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 4 of 19

Print date: 22/01/2026

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

It may cause an allergic reaction, dermatitis, redness or inflammation of the skin.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract.

SECTION 5: FIREFIGHTING MEASURES.

Flammable product, the necessary prevention measures should be taken in order to avoid risks, In case of fire, the following measures are recommended:

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture.

Special risks.

Exposure to combustion or decomposition products can be harmful to your health.

During a fire and depending on its magnitude the following may occur:

- Carbon monoxide, carbon dioxide.
- Flammable vapors or gases.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Follow the instructions given in the emergency or fire evacuation plan or plans if available.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots. During extinction and depending on the magnitude and proximity to the fire, additional protective equipment such as chemical protection gloves, heat-reflecting suits or gas-tight suits may be required.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Product not classified as hazardous for the environment, avoid spillage as much as possible.

6.3 Methods and material for containment and cleaning up.

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 5 of 19

Print date: 22/01/2026

7.1 Precautions for safe handling.

The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards.

The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use anti-static footwear and clothing, and floors must be conductors.

Keep the container tightly closed and isolated from heat sources, sparks, and fire. Do not use tools that can cause sparks. For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 25 °C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 Specific end use(s).

Salvo indicaciones ya especificadas no es preciso realizar ninguna indicación especial en cuanto a los usos de este producto

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
Hexamethylene diisocyanate, oligomers	28182-81-2	European Union [1]	Eight hours		0,06 (Calculated as NCO, skin dermal and respiratory sensitization)
			Short term		0,012 (Calculated as NCO, skin dermal and respiratory sensitization)
xylene	1330-20-7	European Union [1]	Eight hours	50 (skin)	221 (skin)
			Short term	100 (skin)	442 (skin)
2-methoxy-1-methylethyl acetate	108-65-6	European Union [1]	Eight hours	50 (skin)	275 (skin)
			Short term	100 (skin)	550 (skin)
acetone, propan-2-one, propanone	67-64-1	European Union [1]	Eight hours	500	1210
			Short term		

[1] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
xylene CAS No: 1330-20-7 EC No: 215-535-7	DNEL (Workers)	Inhalation, Chronic, Systemic effects	77 (mg/m ³)
n-butyl acetate CAS No: 123-86-4 EC No: 204-658-1	DNEL (Workers)	Inhalation, Chronic, Systemic effects	480 (mg/m ³)
	DNEL (Consumers)	Inhalation, Chronic, Systemic effects	102,34 (mg/m ³)

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 6 of 19

Print date: 22/01/2026

	DNEL (Workers)	Inhalation, Short term, Systemic effects	960 (mg/m ³)
	DNEL (Consumers)	Inhalation, Short term, Systemic effects	859,7 (mg/m ³)
	DNEL (Workers)	Inhalation, Chronic, Local effects	480 (mg/m ³)
	DNEL (Consumers)	Inhalation, Chronic, Local effects	102,34 (mg/m ³)
	DNEL (Workers)	Inhalation, Short term, Local effects	960 (mg/m ³)
	DNEL (Consumers)	Inhalation, Short term, Local effects	859,7 (mg/m ³)
	DNEL (Consumers)	Oral, Chronic, Systemic effects	3,4 (mg/kg bw/day)
	DNEL (Consumers)	Dermal, Chronic, Systemic effects	3,4 (mg/kg bw/day)
2-methoxy-1-methylethyl acetate CAS No: 108-65-6 EC No: 203-603-9	DNEL (Workers)	Inhalation, Chronic, Systemic effects	275 (mg/m ³)
	DNEL (Consumers)	Inhalation, Chronic, Systemic effects	33 (mg/m ³)
	DNEL (Workers)	Dermal, Chronic, Systemic effects	153,5 (mg/kg bw/day)
	DNEL (Consumers)	Dermal, Chronic, Systemic effects	54,8 (mg/kg bw/day)
	DNEL (Consumers)	Oral, Chronic, Systemic effects	1,67 (mg/kg bw/day)
acetone, propan-2-one, propanone CAS No: 67-64-1 EC No: 200-662-2	DNEL (Workers)	Inhalation, Chronic, Systemic effects	1210 (mg/m ³)
	DNEL (Consumers)	Inhalation, Chronic, Systemic effects	200 (mg/m ³)
	DNEL (Workers)	Inhalation, Short term, Local effects	2420 (mg/m ³)
	DNEL (Workers)	Dermal, Chronic, Systemic effects	186 (mg/kg bw/day)
	DNEL (Consumers)	Dermal, Chronic, Systemic effects	62 (mg/kg bw/day)
	DNEL (Consumers)	Oral, Chronic, Systemic effects	62 (mg/kg bw/day)
hexamethylene-di-isocyanate CAS No: 822-06-0 EC No: 212-485-8	DNEL (Workers)	Inhalation, Chronic, Local effects	0,035 (mg/m ³)
	DNEL (Workers)	Inhalation, Chronic, Systemic effects	0,035 (mg/m ³)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
n-butyl acetate CAS No: 123-86-4 EC No: 204-658-1	aqua (freshwater)	0,18 (mg/l)
	aqua (marine water)	0,018 (mg/l)
	aqua (intermittent releases)	0,36 (mg/l)
	STP	35,6 (mg/l)
	sediment (freshwater)	0,981 (mg/kg sediment dw)
	sediment (marine water)	0,0981 (mg/kg sediment dw)
2-methoxy-1-methylethyl acetate	aqua (freshwater)	0,635 (mg/L)

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 7 of 19

Print date: 22/01/2026

CAS No: 108-65-6 EC No: 203-603-9	aqua (marine water)	0,0635 (mg/L)
	aqua (intermittent releases)	6,35 (mg/L)
	STP	100 (mg/L)
	sediment (freshwater)	3,29 (mg/kg sediment dw)
	sediment (marine water)	0,329 (mg/kg sediment dw)
	soil	0,29 (mg/kg soil dw)
2-methylpropan-2-ol, tert-butyl alcohol CAS No: 75-65-0 EC No: 200-889-7	aqua (freshwater)	6,64 (mg/L)
	aqua (marine water)	0,664 (mg/L)
	aqua (intermittent releases)	9,33 (mg/L)
	STP	690 (mg/L)
	sediment (freshwater)	5,8 (mg/kg sediment dw)
	soil	1 (mg/kg soil dw)
acetone, propan-2-one, propanone CAS No: 67-64-1 EC No: 200-662-2	oral	88700 (g/kg food)
	aqua (freshwater)	10,6 (mg/L)
	aqua (marine water)	1,06 (mg/L)
	aqua (intermittent releases)	21 (mg/L)
	STP	100 (mg/L)
	sediment (freshwater)	30,04 (mg/kg sediment dw)
	sediment (marine water)	3,04 (mg/kg sediment dw)
	soil	29,5 (mg/kg soil dw)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %
Uses:	Revestimiento poliuretano alifático de 2 C para uso interior y exterior
Breathing protection:	
PPE:	Filter mask for protection against gases and particles.
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.
CEN standards:	EN 136, EN 140, EN 405
Maintenance:	Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.
Observations:	Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.
Filter Type needed:	A2
Hand protection:	
PPE:	Protective gloves against chemicals.
Characteristics:	«CE» marking, category III.
CEN standards:	EN 374-1, EN 374-2, EN 374-3, EN 420
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.



-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 8 of 19

Print date: 22/01/2026

Material:	PVC (polyvinyl chloride)	Breakthrough time (min.):	> 480	Material thickness (mm):	0,35
Eye protection:					
PPE:	Protective goggles with built-in frame.				
Characteristics:	«CE» marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour.				
CEN standards:	EN 165, EN 166, EN 167, EN 168				
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.				
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.				
Skin protection:					
PPE:	Anti-static protective clothing.				
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.				
CEN standards:	EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5				
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.				
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.				
PPE:	Anti-static safety footwear.				
Characteristics:	«CE» marking, category II.				
CEN standards:	EN ISO 13287, EN ISO 20344, EN ISO 20346				
Maintenance:	The footwear should be checked regularly				
Observations:	The level of comfort during use and acceptability are factors that are assessed very differently depending on the user. Therefore, it is advisable to try on different footwear models and, if possible, different widths.				

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Physical state: Liquid

Colour: Not applicable/Not available due to the nature/properties of the product

Odour: Not applicable/Not available due to the nature/properties of the product

Odour threshold: Not applicable/Not available due to the nature/properties of the product

Melting point: Not applicable/Not available due to the nature/properties of the product

Freezing point: Not applicable/Not available due to the nature/properties of the product

Boiling point or initial boiling point and boiling range: 148 °C

Flammability: Not applicable/Not available due to the nature/properties of the product

Lower explosion limit: Not applicable/Not available due to the nature/properties of the product

Upper explosion limit: Not applicable/Not available due to the nature/properties of the product

Flash point: 29 °C

Auto-ignition temperature: Not applicable/Not available due to the nature/properties of the product

Decomposition temperature: Not applicable/Not available due to the nature/properties of the product

pH: Not applicable/Not available due to the nature/properties of the product

Kinematic viscosity: Not applicable/Not available due to the nature/properties of the product

Solubility: Not applicable/Not available due to the nature/properties of the product

Hydrosolubility: Not applicable/Not available due to the nature/properties of the product

Liposolubility: Not applicable/Not available due to the nature/properties of the product

Partition coefficient n-octanol/water (log value): Not applicable/Not available due to the nature/properties of the product

Vapour pressure: 11.543 Pa

Absolute density: Not applicable/Not available due to the nature/properties of the product

Relative density: 1

Relative vapour density: Not applicable/Not available due to the nature/properties of the product

Particle characteristics: Not applicable/Not available due to the nature/properties of the product

9.2 Other information

Information with regard to physical hazard classes

Flammable liquids:

Sustained combustibility: Yes.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 9 of 19

Print date: 22/01/2026

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

Flammable liquid and vapour.

10.4 Conditions to avoid.

Avoid any improper handling.

10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

SECTION 11: TOXICOLOGICAL INFORMATION.

IRRITANT MIXTURE. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

IRRITANT MIXTURE. The inhalation of spray mist or suspended particulates can irritate the respiratory tract. It can also cause serious respiratory difficulties, central nervous system disorders, and in extreme cases, unconsciousness.

11.1 Information on hazard classes as defined in Regulation (EC) N° 1272/2008.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Exposure to concentrations of solvent fumes above the work exposure limit can have negative effects (for example, irritation of the mucous membranes and respiratory system, adverse effects on the kidneys, liver, and the central nervous system). Among the symptoms are headaches, vertigo, fatigue, muscular weakness, drowsiness, and in extreme cases, unconsciousness.

Based on the properties of isocyanates and taking into account existing technical data on similar products, it appears that this product may cause irritation and / or acute awareness of the respiratory system, leading to an asthmatic condition, a wheezing and chest pressure. Therefore, sensitized individuals may show asthmatic symptoms when exposed to atmospheres containing concentrations below the level of exposure. Repeated exposure can lead to chronic respiratory diseases.

Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
xylene CAS No: 1330-20-7 EC No: 215-535-7	Oral	LD50	Rat	4300 mg/kg bw [1] [1] AMA Archives of Industrial Health. Vol. 14, Pg. 387, 1956
	Dermal	LD50	Rabbit	> 1700 mg/kg bw [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 123, 1974
	Inhalation	LC50	Rat	21,7 mg/l/4 h [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 123, 1974
n-butyl acetate	Oral	LD50	Rat	10800 mg/kg bw [1] [1] Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 1, Pg. 196, 1992
	Dermal	LD50	Rabbit	>17600 mg/kg bw [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 7, 1974
	Inhalation	LC50	Rat	1.85 mg/l/4 h [1]

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 10 of 19

Print date: 22/01/2026

CAS No: 123-86-4	EC No: 204-658-1		[1] Inhalation Toxicology. Vol. 9, Pg. 623, 1997
2-methoxy-1-methylethyl acetate	Oral	LD50 Rat	6190 mg/kg bw [1]
			[1] Study report, 1985. OECD Guideline 401 (Acute Oral Toxicity).
	Dermal	LD50 Rabbit	>5000 mg/kg bw [1]
CAS No: 108-65-6	Inhalation		[1] Dow Chemical Company Reports. Vol. MSD-1582
		LC0 Rat	>4345 ppm (6 h) [1]
			[1] Study report, 1980. OECD Guideline 403 (Acute Inhalation Toxicity).
2-methylpropan-2-ol, tert-butyl alcohol	Oral	LD50 Rat	2740 mg/kg bw [1]
			[1] National Technical Information Service. Vol. OTS0572351
	Dermal	LD50 Rabbit	> 2000 mg/kg bw [1]
CAS No: 75-65-0	Inhalation		[1] National Technical Information Service. Vol. OTS0572351
		LC50 Rat	> 30.3 mg/l (4 h) [1]
			[1] National Technical Information Service. Vol. OTS0572351
acetone, propan-2-one, propanone	Oral	LD50 Rat	5800 mg/kg bw [1]
			[1] Journal of Toxicology and Environmental Health. Vol. 15, Pg. 609, 1985
	Dermal		
CAS No: 67-64-1	Inhalation		
EC No: 200-662-2			

a) acute toxicity;

Product classified:

Acute toxicity (Inhalation), Category 4: Harmful if inhaled.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Dermal) = 3.265 mg/kg

ATE (Inhalation) = 14 mg/l/4 h (Vapours)

b) skin corrosion/irritation;

Product classified:

Skin irritant, Category 2: Causes skin irritation.

c) serious eye damage/irritation;

Based on available data, the classification criteria are not met.

d) respiratory or skin sensitisation;

Product classified:

Skin sensitizer, Category 1: May cause an allergic skin reaction.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

Not conclusive data for classification.

h) STOT-single exposure;

Product classified:

Specific target organ toxicity following a single exposure, Category 3: May cause respiratory irritation.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 11 of 19

Print date: 22/01/2026

i) STOT-repeated exposure;
Based on available data, the classification criteria are not met.

j) aspiration hazard;
Not conclusive data for classification.

11.2 Information on other hazards.

Endocrine disrupting properties

This product does not contain components with endocrine-disrupting properties with effects on human health.

Other information

There is no information available on other adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
xylene	Fish	LC50	Fish	15,7 mg/l (96 h) [1]
		[1] Bailey, H.C., D.H.W. Liu, and H.A. Javitz 1985. Time/Toxicity Relationships in Short-Term Static, Dynamic, and Plug-Flow Bioassays. In: R.C.Bahner and D.J.Hansen (Eds.), Aquatic Toxicology and Hazard Assessment, 8th Symposium, ASTM STP 891, Philadelphia, PA :193-212		
	Aquatic invertebrates	LC50	Crustacean	8,5 mg/l (48 h) [1]
n-butyl acetate	Fish	LC50	Fish	81 mg/l (96 h) [1]
		[1] Wellens, H. 1982. Comparison of the Sensitivity of Brachydanio rerio and Leuciscus idus by Testing the Fish Toxicity of Chemicals and Wastewaters. Z.Wasser-Abwasser-Forsch. 51(2):49-52 (GER) (ENG ABS). Dawson, G.W., A.L. Jennings, D. Drozdowski, and E. Rider 1977. The Acute Toxicity of 47 Industrial Chemicals to Fresh and Saltwater Fishes. J.Hazard.Mater. 1(4):303-318 (OECDG Data File)		
	Aquatic invertebrates	EC50	Daphnia sp.	44 mg/l (48 h) [1]
2-methoxy-1-methylethyl acetate	Aquatic plants	EC50	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	674.7 mg/l (72 h) [1]
		[1] Method: other: algae growth inhibition test, according to Umweltbundesamt (German Federal Environment Agency) (proposal/draft, version February 1984)		
2-methoxy-1-methylethyl acetate	Fish	LC50	Oryzias latipes	100 mg/L (96 h) [1]
		[1] Environment Agency of Japan (1998)		

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 12 of 19

Print date: 22/01/2026

CAS No: 108-65-6 EC No: 203-603-9	Aquatic invertebrates	EC50 Daphnia magna 407 mg/L (48 h) [1] [1] Environment Agency of Japan (1998)
	Aquatic plants	EC50 Selenastrum capricornutum (Pseudokirchnerella subcapitata) >1000 mg/L (72 h) [1] [1] Environment Agency of Japan (1998)
2-methylpropan-2-ol, tert-butyl alcohol CAS No: 75-65-0 EC No: 200-889-7	Fish	LC50 Pimephales promelas 961 mg/l (96 h) [1] [1] study report, 2003
	Aquatic invertebrates	EC50 Daphnia magna 5504 mg/l (48 h) [1] [1] Water Research, 23 (4): 495-499., 1989
	Aquatic plants	EC50 Selenastrum capricornutum 976 mg/l (24 h) [1] [1] study report, 2003
acetone, propan-2-one, propanone CAS No: 67-64-1 EC No: 200-662-2	Fish	LC50 Fish 8300 mg/l (96 h) [1] [1] Cairns, J.Jr., and A. Scheier 1968. A Comparison of the Toxicity of Some Common Industrial Waste Components Tested Individually and Combined. Prog.Fish-Cult. 30(1):3-8
	Aquatic invertebrates	LC50 Crustacean 8450 mg/l (48 h) [1] [1] Cowgill, U.M., and D.P. Milazzo 1991. The Sensitivity of Ceriodaphnia dubia and Daphnia magna to Seven Chemicals Utilizing the Three-Brood Test. Arch.Environ.Contam.Toxicol. 20(2):211-217. Canton, J.H., and D.M.M. Adema 1978. Reproducibility of Short-Term and Reproduction Toxicity Experiments with Daphnia magna and Comparison of the Sensitivity of Daphnia magna with Daphnia pulex and Daphnia cucullata in Short-Term Experiments. Hydrobiologia 59(2):135-140 (Used Reference 2018)
	Aquatic plants	EC50 Algae 7200 mg/l (96 h) [1] [1] Slooff, W. 1982. A Comparative Study on the Short-Term Effects of 15 Chemicals on Fresh Water Organisms of Different Tropic Levels. Natl.Tech.Inf.Serv., Springfield, VA :25 p. (DUT) (ENG ABS) (NTIS/PB83-200386)

12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present.

No information is available on the degradability of the substances present.

No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
n-butyl acetate CAS No: 123-86-4 EC No: 204-658-1	1,78	-	-	Very low
2-methylpropan-2-ol, tert-butyl alcohol CAS No: 75-65-0 EC No: 200-889-7	0,35	-	-	Very low

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 13 of 19

Print date: 22/01/2026

acetone, propan-2-one, propanone	-0,24	3	-	Very low
CAS No: 67-64-1	EC No: 200-662-2			

12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

12.7 Other adverse effects.

The product is not affected by the Regulation (EU) 2024/590 of the European Parliament and of the Council of 7 February 2024 on substances that deplete the ozone layer.

No information is available about other adverse effects for the environment.

SECTION 13: DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading

Air: Transport by plane: ICAO/IATA.

Transport document: Airway bill.

14.1 UN number or ID number.

UN No: UN1263

14.2 UN proper shipping name.

Description:

ADR/RID: UN 1263, PAINT, 3, PG III, (D/E)

IMDG: UN 1263, PAINT, 3, PG III (29°C)

ICAO/IATA: UN 1263, PAINT, 3, PG III

14.3 Transport hazard class(es).

Class(es): 3

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.

Marine pollutant: No

Transport by ship, FEm – Emergency sheets (F – Fire, S – Spills): F-E,S-E

14.6 Special precautions for user.

Labels: 3

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 14 of 19

Print date: 22/01/2026



Hazard number: 30

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.

Proceed in accordance with point 6.

ADR LQ: 5 L

IMDG LQ: 5 L

ICAO LQ: 10 L

14.7 Maritime transport in bulk according to IMO instruments.

The product is not transported in bulk.

SECTION 15: REGULATORY INFORMATION.

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

Volatile organic compound (VOC)

Product Subcategory (Directive 2004/42/EC): E - Special finishes (All types)

Phase I* (from 01/01/2007): 840 g/l

Phase II* (from 01/01/2010): 840 g/l

(*) g/l ready to use

VOC content (p/p): 37,539 %

VOC content: 375,387 g/l

The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles:

Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
74. Diisocyanates, $O = C = N - R - N = C = O$, where R is an aliphatic or aromatic hydrocarbon structure of unspecified length	1. Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 August 2023, unless: (a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s). 2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless: (a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the supplier ensures that the recipient of the substance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 15 of 19

Print date: 22/01/2026

manner that is visibly distinct from the rest of the label information: 'As from 24 August 2023 adequate training is required before industrial or professional use'.

3. For the purpose of this entry 'industrial and professional user(s)' means any worker or self-employed worker handling diisocyanates on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) or supervising these tasks.

4. The training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation exposure to diisocyanates at the workplace without prejudice to any national occupational exposure limit value or other appropriate risk management measures at national level. Such training shall be conducted by an expert on occupational safety and health with competence acquired by relevant vocational training. That training shall cover as a minimum:

(a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s).

(b) the training elements in points (a) and (b) of paragraph 5 for the following uses:

- handling open mixtures at ambient temperature (including foam tunnels);
- spraying in a ventilated booth;
- application by roller;
- application by brush;
- application by dipping and pouring;
- mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore;
- cleaning and waste;
- any other uses with similar exposure through the dermal and/or inhalation route;

(c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:

- handling incompletely cured articles (e.g. freshly cured, still warm);
- foundry applications;
- maintenance and repair that needs access to equipment;
- open handling of warm or hot formulations (> 45 °C);
- spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers);
- and any other uses with similar exposure through the dermal and/or inhalation route.

5. Training elements:

(a) general training, including on-line training, on:

- chemistry of diisocyanates;

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 16 of 19

Print date: 22/01/2026

	- toxicity hazards (including acute toxicity); - exposure to diisocyanates; - occupational exposure limit values; - how sensitisation can develop; - odour as indication of hazard; - importance of volatility for risk; - viscosity, temperature, and molecular weight of diisocyanates; - personal hygiene; - personal protective equipment needed, including practical instructions for its correct use and its limitations; - risk of dermal contact and inhalation exposure; - risk in relation to application process used; - skin and inhalation protection scheme; - ventilation; - cleaning, leakages, maintenance; - discarding empty packaging; - protection of bystanders; - identification of critical handling stages; - specific national code systems (if applicable); - behaviour-based safety; - certification or documented proof that training has been successfully completed (b) intermediate level training, including on-line training, on: - additional behaviour-based aspects; - maintenance; - management of change; - evaluation of existing safety instructions; - risk in relation to application process used; - certification or documented proof that training has been successfully completed (c) advanced training, including on-line training, on: - any additional certification needed for the specific uses covered; - spraying outside a spraying booth; - open handling of hot or warm formulations (> 45 °C);
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SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 17 of 19

Print date: 22/01/2026

	- certification or documented proof that training has been successfully completed 6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate. Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture(s), as long as the minimum requirements set out in paragraphs 4 and 5 are met. 7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including composition, packaging, and design. 8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed at least every five years. 9. Member States shall include in their reports pursuant to Article 117(1) the following information: (a) any established training requirements and other risk management measures related to the industrial and professional uses of diisocyanates foreseen in national law; (b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates; (c) national exposure limits for diisocyanates, if there are any; (d) information about enforcement activities related to this restriction. 10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the workplace.
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15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Complete text of the EUH phrases that appear in section 3:

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 18 of 19

Print date: 22/01/2026

EUH066 Repeated exposure may cause skin dryness or cracking.

Classification codes:

Acute Tox. 3: Acute toxicity (Inhalation), Category 3
Acute Tox. 4: Acute toxicity (Dermal), Category 4
Acute Tox. 4: Acute toxicity (Inhalation), Category 4
Aquatic Acute 1: Acute toxicity to the aquatic environment, Category 1
Aquatic Chronic 2: Chronic effect to the aquatic environment, Category 2
Eye Dam. 1: Serious eye damage, Category 1
Eye Irrit. 2: Eye irritation, Category 2
Flam. Liq. 2: Flammable liquid, Category 2
Flam. Liq. 3: Flammable liquid, Category 3
Resp. Sens. 1: Respiratory sensitiser, Category 1
Skin Irrit. 2: Skin irritant, Category 2
Skin Sens. 1: Skin sensitiser, Category 1
STOT RE 2: Specific target organ toxicity following a repeated exposure, Category 2
STOT SE 3: Specific target organ toxicity following a single exposure, Category 3

Changes regarding to the previous version:

- Change of the name of the product (SECTION 1.1).
- Change of the uses of the product (SECTION 1.2).
- Change in the hazard classification (SECTION 2.1).
- Removal of precautionary statements/hazard statements/pictograms/signal word (SECTION 2.2).
- Addition of precautionary statements/hazard statements/pictograms/signal word (SECTION 2.2).
- Modification of specific hazards (SECTION 2.3).
- Changes in the composition of the product (SECTION 3.2).
- Changes in the composition of the product (SECTION 3.2).
- Changes in the composition of the product (SECTION 3.2).
- Modifications in the first aid measures (SECTION 4.1).
- Modification of the symptoms (SECTION 4.2).
- Modification of the medical attention measures (SECTION 4.3).
- Modification in the firefighting measures (SECTION 5.2).
- Modifications in the accidental release measures (SECTION 6.1).
- Modifications in the handling and storage precautions (SECTION 7.1).
- Modifications in the handling and storage precautions (SECTION 7.2).
- Change of the uses of the product (SECTION 7.3).
- Elimination of exposure data (SECTION 8.1).
- Addition of exposure data (SECTION 8.1).
- Modification of exposure data (SECTION 8.1).
- Addition of personal protective equipment (SECTION 8.2).
- Modifications of the personal protective equipment (SECTION 8.2).
- Modification in the values of the physical and chemical properties (SECTION 9).
- Modification of the information of the stability and reactivity conditions (SECTION 10.1).
- Modification of the information of the stability and reactivity conditions (SECTION 10.4).
- Modification of the information of the stability and reactivity conditions (SECTION 10.5).
- Modification of the information of the stability and reactivity conditions (SECTION 10.6).
- Elimination of toxicity values (SECTION 11.1).
- Addition of ecotoxicity values (SECTION 11.1).
- Change in the hazard classification (SECTION 11.1).
- Elimination of ecological information values (SECTION 12.1).
- Addition of ecological information values (SECTION 12.1).
- Elimination of ecological information values (SECTION 12.3).
- Addition of ecological information values (SECTION 12.3).
- Modification of the classification ADR/IMDG/ICAO/IATA/RID (SECTION 14).
- National legislative changes (SECTION 15.1).
- Elimination of abbreviations and acronyms (SECTION 16).

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards	On basis of test data
Health hazards	Calculation method
Environmental hazards	Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

STPURUREAFLEX-FDS-220126-PUR FLEX 70-POLIURETANO ALIFÁTICO FLEXIBLE

Version 1 Date of compilation: 26/05/2022

Version 2 (replaces version 1)

Revision date: 22/01/2026

Page 19 of 19

Print date: 22/01/2026

Abbreviations and acronyms used:

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.
BCF: Bioconcentration factor.
CEN: European Committee for Standardization.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organization.
IMDG: International Maritime Code for Dangerous Goods.
LC50: Lethal concentration, 50%.
LD50: Lethal dose, 50%.
NOEC: No observed effect concentration.
PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2020/878.

Regulation (EC) No 1907/2006.

Regulation (EC) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.