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

1.1 Product identifier.

Product Name: ESMALTE POLIURETANO METAL

Product Code: **STEPB**

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

Not available.

1.3 Details of the supplier of the safety data sheet.

PINTURAS AYELENSES, S.L. Company:

Address: POLÍGONO SAN JOSÉ, S/N AIELO DE MALFERIT City:

Province: VALENCIA Telephone: 962360292 962360601 Fax:

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 (EU) No 1272/2008:

Flam. Liq. 3: Flammable liquid and vapour.

Skin Irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

2.2 Label elements.

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

Pictograms:





Signal Word:

Warning

H statements:

H226 Flammable liquid and vapour. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

P 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.

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

Specific treatment (see ... on this label). P321 P370+P378 In case of fire: Use... to extinguish. Store in a well-ventilated place. Keep cool. P403+P235 P501 Dispose of contents/container to ...

EUH statements:

EUH204 Contains isocyanates. May produce an allergic reaction.

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EUH208 Contains Fatty acids, C14-18 and C16-18-unsatd., maleated. May produce an allergic reaction.

Contains:

Hexamethylene diisocyanate, oligomers

2.3 Other hazards.

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:

				- Regulation (EC) 2/2008
Identifiers	Name	Concentrate	Classification	specific concentration limit
CAS No: 13463-67-7 EC No: 236-675-5 Registration No: 01- 2119489379-17-XXXX	[1] Titanium dioxide	25 - 50 %	-	-
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: 607-195- 00-7 CAS No: 108-65-6 EC No: 203-603-9 Registration No: 01- 2119475791-29-XXXX	[1] 2-methoxy-1-methylethyl acetate	2.5 - 10 %	Flam. Liq. 3, H226	-
CAS No: 28182-81-2 EC No: 500-060-2	Hexamethylene diisocyanate, oligomers	1 - 10 %	Skin Sens. 1, H317	-
Index No: 601-023- 00-4 CAS No: 100-41-4 EC No: 202-849-4 Registration No: 01- 2119489370-35-XXXX	[1] ethylbenzene	1 - 10 %	Acute Tox. 4 *, H332 - Asp. Tox. 1, H304 - Flam. Liq. 2, H225 - STOT RE 2, H373(órganos de audición)	-
CAS No: 85711-46-2 EC No: 288-306-2	Fatty acids, C14-18 and C16-18-unsatd., maleated	0.1 - 1 %	Skin Irrit. 2, H315 - Skin Sens. 1, H317	-
Index No: 606-005- 00-X CAS No: 108-83-8 EC No: 203-620-1 Registration No: 01- 2119474441-41-XXXX	[1] 2,6-dimethylheptan-4-one, di-isobutyl ketone	0 - 10 %	Flam. Liq. 3, H226 - STOT SE 3, H335	STOT SE 3, H335: C ≥ 10 %

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Index No: 604-006- 00-X CAS No: 1300-71-6 EC No: 215-089-3	xylenol	0.1 - 1 %	Acute Tox. 3 *, H311 - Acute Tox. 3 *, H301 - Aquatic Chronic 2, H411 - Skin Corr. 1B, H314	-
Index No: 615-011- 00-1 CAS No: 822-06-0 EC No: 212-485-8 Registration No: 01- 2119457571-37-XXXX	[1] hexamethylene-di-isocyanate	0 - 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 %
Index No: 603-108- 00-1 CAS No: 78-83-1 EC No: 201-148-0 Registration No: 01- 2119484609-23-XXXX	[1] 2-methylpropan-1-ol, iso-butanol	0 - 1 %	Eye Dam. 1, H318 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - STOT SE 3, H335 - STOT SE 3, H336	-
Index No: 603-004- 00-6 CAS No: 71-36-3 EC No: 200-751-6 Registration No: 01- 2119484630-38-XXXX	[1] butan-1-ol	0 - 1 %	Acute Tox. 4 *, H302 - Eye Dam. 1, H318 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - STOT SE 3, H335 - STOT SE 3, H336	-

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

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

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.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

Eve 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.

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

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

^[1] Substance with a Community workplace exposure limit (see section 8.1).

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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. Cover the affected area with a dry sterile bandage. Protect the affected area from pressure or friction.

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.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

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

- 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.

Prevent the contamination of drains, surface or subterranean waters, and the ground.

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

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.

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

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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 antistatic 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 wellventilated 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).

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m³
		United	Eight hours		10 (total inhalable)
		Kingdom [1]	Short term		
Titanium dioxide	13463-67-7	Éire [2]	Eight hours		10 (Inhalable dust) 4 (Respirable dust)
			Short term		
		European	Eight hours	50 (skin)	221 (skin)
		Union [3]	Short term	100 (skin)	442 (skin)
		United	Eight hours	50	220
		Kingdom [1]	Short term	100	441
		Éire [2]	Eight hours	50	221
xylene	1330-20-7	Life [2]	Short term	100	442
Aylene	1550 20 7	United States	Eight hours	100	
		[4] (Cal/OSHA)	Short term	150 (Ceiling) 300	
		United States	Eight hours	100	
		[5] (NIOSH)	Short term	150	
		United States	Eight hours	100	435
		[6] (OSHA)	Short term		
		European	Eight hours	50 (skin)	275 (skin)
		Union [3]	Short term	100 (skin)	550 (skin)
2-methoxy-1-methylethyl acetate	108-65-6	United	Eight hours	50	274
2-methoxy-1-methylethyl acetate	100-03-0	Kingdom [1]	Short term	100	548
		Éire [2]	Eight hours	50	275
		Life [2]	Short term	100	550
		European	Eight hours	100 (skin)	442 (skin)
		Union [3]	Short term	200 (skin)	884 (skin)
ethylbenzene	100-41-4	United	Eight hours	100	441
Cutyibenzene	100-41-4	Kingdom [1]	Short term	125	552
		Éire [2]	Eight hours	100	442
		LIIE [2]	Short term	200	884

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		United States	Eight hours	5	
		[4] (Cal/OSHA)	Short term	30	
		United States	Eight hours	100	
		[5] (NIOSH)	Short term	125	
		United States	Eight hours	100	435
		[6] (OSHA)	Short term	100	733
		United	Eight hours	25	148
		Kingdom [1]	Short term		110
			Eight hours	25	150
		Éire [2]	Short term		
2,6-dimethylheptan-4-one, di-isobutyl		United States	Eight hours	25	
ketone	108-83-8	[4] (Cal/OSHA)	Short term		
		United States	Eight hours	25	
		[5] (NIOSH)	Short term		
		United States	Eight hours	50	290
		[6] (OSHA)	Short term		
to a south to a Prince of the	022.06.0		Eight hours	0,005	
hexamethylene-di-isocyanate	822-06-0	Éire [2]	Short term		
	70.03.4	United Kingdom [1]	Eight hours	50	154
			Short term	75	231
		Éire [2]	Eight hours	50	150
			Short term	75	225
2 mothydayaaa 1 al iaa hytaaal		United States	Eight hours	50	
2-methylpropan-1-ol, iso-butanol	78-83-1	[4] (Cal/OSHA)	Short term		
		United States	Eight hours	50	
		[5] (NIOSH)	Short term		
		United States	Eight hours	100	300
		[6] (OSHA)	Short term		
		United	Eight hours		
		Kingdom [1]	Short term	50	154
		Éire [2]	Eight hours	20	
			Short term		
butan-1-ol	71-36-3	United States	Eight hours	(Ceiling) 50	
butan-1-oi	/1-30-3	[4] (Cal/OSHA)	Short term		
		United States	Eight hours	(Ceiling) 50	
		[5] (NIOSH)	Short term		
		United States	Eight hours	100	300
	2 d T di ti	[6] (OSHA)	Short term	1146	

^[1] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adobted by Health and Safety Executive.

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Туре	Value
Titanium dioxide	DNEL	Inhalation, Long-term, Local effects	10
CAS No: 13463-67-7	(Workers)		(mg/m³)
EC No: 236-675-5			
xylene	DNEL	Inhalation, Long-term, Systemic effects	77
CAS No: 1330-20-7	(Workers)		(mg/m ³)
EC No: 215-535-7			
2-methoxy-1-methylethyl acetate	DNEL	Inhalation, Long-term, Systemic effects	275
CAS No: 108-65-6	(Workers)		(mg/m³)

^[2] According Code of Practice for the Safety, Health and Welfare at Work (Chemicals Agents) Regulations adopted by Health and Safety Authority (HSA).

^[3] According both Binding Occupational Esposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

^[4] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

^[5] According Compendium of Policy Documents and Statements adopted by National Institute for Occupational Safety and Health (NIOSH).

^[6] According Occupational Health and Safety Standards and US Code of Federal Regulations adopted by US Occupational Safety and Health Administration (OSHA).

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EC No: 203-603-9	DNEL (General population)	Inhalation, Long-term, Systemic effects	33 (mg/m³)
	DNEL (Workers)	Dermal, Long-term, Systemic effects	153,5 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	54,8 (mg/kg bw/day)
	DNEL (General population)	Oral, Long-term, Systemic effects	1,67 (mg/kg bw/day)
ethylbenzene CAS No: 100-41-4 EC No: 202-849-4	DNEL (Workers)	Inhalation, Long-term, Systemic effects	77 (mg/m³)
2,6-dimethylheptan-4-one, di-isobutyl ketone CAS No: 108-83-8 EC No: 203-620-1	DNEL (Workers)	Inhalation, Long-term, Local effects	290 (mg/m³)
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	479 (mg/m³)
hexamethylene-di-isocyanate CAS No: 822-06-0	DNEL (Workers)	Inhalation, Long-term, Local effects	0,035 (mg/m³)
EC No: 212-485-8	DNEL (Workers)	Inhalation, Long-term, Systemic effects	0,035 (mg/m³)
2-methylpropan-1-ol, iso-butanol CAS No: 78-83-1	DNEL (Workers)	Inhalation, Long-term, Local effects	310 (mg/m³)
EC No: 201-148-0	DNEL (General population)	Inhalation, Long-term, Local effects	55 (mg/m³)
	DNEL (Workers)	Inhalation, Long-term, Local effects	310 (mg/m³)
butan-1-ol CAS No: 71-36-3	DNEL (General population)	Inhalation, Long-term, Local effects	55 (mg/m³)
EC No: 200-751-6	DNEL (General population)	Oral, Long-term, Systemic effects	3,125 (mg/kg bw/day)

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
	aqua (freshwater)	0,635 (mg/L)
	aqua (marine water)	0,0635
		(mg/L)
	aqua (intermittent releases)	6,35 (mg/L)
2-methoxy-1-methylethyl acetate	STP	100 (mg/L)
CAS No: 108-65-6	sediment (freshwater)	3,29 (mg/kg
EC No: 203-603-9		sediment dw)
	sediment (marine water)	0,329 (mg/kg
		sediment dw)
	soil	0,29 (mg/kg
		soil dw)
	aqua (freshwater)	0,4 (mg/L)
	aqua (marine water)	0,04 (mg/L)
	aqua (intermittent releases)	11 (mg/L)
	STP	10 (mg/L)
2-methylpropan-1-ol, iso-butanol	sediment (freshwater)	1,52 (mg/kg
CAS No: 78-83-1		sediment dw)
EC No: 201-148-0	sediment (marine water)	0,152 (mg/kg
		sediment dw)
	soil	0,0699
		(mg/kg soil
		dw)
butan-1-ol	aqua (freshwater)	0,082 (mg/L)

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CAS No: 71-36-3	aqua (marine water)	0,0082
EC No: 200-751-6		(mg/L)
	aqua (intermittent releases)	2,25 (mg/L)
	STP	2476 (mg/L)
	sediment (freshwater)	0,178 (mg/kg
		sediment dw)
	sediment (marine water)	0,0178
		(mg/kg
		sediment dw)
	soil	0,015 (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:				
Breathing protect	tion:			
	ed technical measures are observed, no individual protection equipment is necessary.			
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.			
Material:	PVC (polyvinyl chloride) Breakthrough time (min.): 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 The level of comfort during use and acceptability are factors that are assessed very differently depending			
Observations:	on the user. Therefore, it is advisable to try on different footwear models and, if possible, different widths.			

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Liquid with characteristic odour and colour

Colour: N.A./N.A. Odour: N.A./N.A.

Odour threshold: N.A./N.A.

pH:N.A./N.A.

Melting point: N.A./N.A. Boiling Point: N.A./N.A. Flash point: 33 °C

Evaporation rate: N.A./N.A.

Inflammability (solid, gas): N.A./N.A. Lower Explosive Limit: N.A./N.A. Upper Explosive Limit: N.A./N.A. Vapour pressure: N.A./N.A. Vapour density: N.A./N.A. Relative density:1,33-1,39 Solubility: N.A./N.A. Liposolubility: N.A./N.A. Hydrosolubility: N.A./N.A.

Partition coefficient (n-octanol/water): N.A./N.A.

Auto-ignition temperature: N.A./N.A. Decomposition temperature: N.A./N.A.

Viscosity: N.A./N.A.

Explosive properties: N.A./N.A. Oxidizing properties: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

9.2 Other information.

Dropping point: N.A./N.A.

Blink: N.A./N.A.

Kinematic viscosity: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

If the storage conditions are satisfied, does not produce dangerous reactions.

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 the following conditions:

- High temperature.
- Static discharge.
- Contact with incompatible materials.
- Avoid temperatures near or above the flash point. Do not heat closed containers. Avoid direct sunlight and heat, as these may cause a risk of fire.

10.5 Incompatible materials.

Avoid the following materials:

- Explosives materials.
- Toxic materials.
- Oxidizing materials.

10.6 Hazardous decomposition products.

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Depending on conditions of use, can be generated the following products:

- COx (carbon oxides).
- Organic compounds.
- Aromatics compounds.

In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

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.

11.1 Information on toxicological effects.

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			
Name	Туре	Test	Kind	Value	
	Oral	LD50	Rat chives of Indus	4300 mg/kg bw [1] strial Health. Vol. 14, Pg. 387, 1956	
xylene		LD50	Rabbit	> 1700 mg/kg bw [1]	
	Dermal	1974. Vol.	1, Pg. 123, 197		
		LC50	Rat	21,7 mg/l/4 h [1]	
CAS No: 1330-20-7 EC No: 215-535-7	Inhalation		aterial Data Ha 1, Pg. 123, 197	ndbook, Vol.1: Organic Solvents,	
		LD50	Rat	6190 mg/kg bw [1]	
2-methoxy-1-methylethyl acetate	Oral	[1] Study Toxicity).		OECD Guideline 401 (Acute Oral	
2-metrioxy-1-metriyletriyi acetate		LD50	Rabbit	>5000 mg/kg bw [1]	
	Dermal	[1] Dow Ch	nemical Compa	ny Reports. Vol. MSD-1582	
		LC0	Rat	>4345 ppm (6 h) [1]	
CAS No: 108-65-6 EC No: 203-603-9	Inhalation	[1] Study r		ECD Guideline 403 (Acute	
		LD50	Rat	3500 mg/kg bw [1]	
	Oral			strial Health. Vol. 14, Pg. 387, 1956	
ethylbenzene		LD50	Rabbit	15400 mg/kg bw [1]	
	Dermal	[1] Food a	nd Cosmetics T	oxicology. Vol. 13, Pg. 803, 1975	
CAS No: 100-41-4	Inhalation				
		LD50	Rat	2830 mg/kg bw [1]	
2-methylpropan-1-ol, iso-butanol	Oral	toxicity an inhalation tests)". B	id irritancy to toxicity) and t	ember 30, 1993. "Isobutanol: Acute esting using the rat (peroral and the rabbit (cutaneous and ocular earch Center, Union Carbide Corp.	

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		1	T		12.12 " 1 5.17
			LD50	Rabbit	4240 mg/kg bw [1]
		Dermal	,	th H.F. Jr. et al.: <i>I</i> 8, (1954) as cite	AMA Arch. Ind. Hyg. Occup. Med., d in IUCLID.
CAS No: 78-83-1	EC No: 201-148-0	Inhalation			
			LD50	Rat	4360 mg/kg bw [1]
		Oral		n Carbide Corp. E No.14-73. Export,	Bushy Run Research Center, Project PA. 1951.
butan-1-ol			LD50	Rabbit	3402 mg/kg bw [1]
		Dermal		n Carbide Corp. B No.14-73. Export,	ushy Run Research Center, Project PA. 1951.
			LC50	Rat	7500 ppm (8 h) [1]
CAS No: 71-36-3	EC No: 200-751-6	Inhalation		n Carbide Corp. B No.14-73. Export,	ushy Run Research Center, Project PA. 1951.

a) acute toxicity;

Not conclusive data for classification.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Dermal) = 3.345 mg/kg

ATE (Oral) = 31.741 mg/kg

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 sensitiser, 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;

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

i) STOT-repeated exposure;

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

j) aspiration hazard;

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

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity
Name	Leotoxicity

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	Туре	Test	Kind	Value	
		LC50	Fish	15,7 mg/l (96 h) [1]	
	Fish	[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			
xylene	Aquatic invertebrates	LC50 Crustacean 8,5 mg/l (48 h) [1] [1] Tatem, H.E., B.A. Cox, and J.W. Anderson 1978. The Toxicity of Oils and Petroleum Hydrocarbons to Estuarine Crustaceans. Estuar.Coast.Mar.Sci. 6(4):365-373. Tatem, H.E. 1975. The Toxicity and Physiological Effects of Oil and Petroleum Hydrocarbons on Estuarine Grass Shrimp Palaemonetes pugio (Holthuis). Ph.D.Thesis, Texas A&M University, College Station, TX:133 p			
CAS No: 1330-20-7 EC No: 215-535-7	Aquatic plants				
20101220020	Fish	LC50	Oryzias latipes	100 mg/L (96 h) [1]	
2-methoxy-1-methylethyl acetate	Aquatic invertebrates	EC50 Daphnia magna 407 mg/L (48			
	Aquatic plants	EC50	Selenastrum capricornutum (Pseudokirchnerell a subcapitata)	>1000 mg/L (72 h) [1]	
CAS No: 108-65-6 EC No: 203-603-9		[1] Environ	ment Agency of Japa		
ath the server	Fish	LC50 Fish 80 mg/l (96 h) [1] [1] Mayer, F.L.Jr., and M.R. Ellersieck 1986. Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals. Resour.Publ.No.160, U.S.Dep.Interior, Fish Wildl.Serv., Washington, DC:505 p. (USGS Data File)			
ethylbenzene	Aquatic invertebrates	Toxicity of	Crude and Refined O invironment Canada,	16,2 mg/l (48 h) [1] see 1989. The Comparative bils to Daphnia magna and EE-111, Dartmouth, Nova	
CAS No: 100-41-4 EC No: 202-849-4	Aquatic plants	[1] Galassi, M.L. Tosato of Aquatic Ecotoxicol. Boeri, and Determine Highly Vola	, S., M. Mingazzini, L. o 1988. Approaches Organisms to Aromat Environ.Saf. 16(2):15 J.D. Walker 1994. Si the Acute Aquatic To tile, Poorly Water-So Environ.Saf. 27(3):33	. Vigano, D. Cesareo, and to Modeling Toxic Responses tic Hydrocarbons. 58-169. Masten, L.W., R.L. tategies Employed to oxicity of Ethyl Benzene, a soluble Chemical.	
2-methylpropan-1-ol, iso-butanol	Fish	Organic Ch promelas).		Innows (Pimephales ke Superior Environmental	

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		Aquatic invertebrates	[1] Elnabarawy MT, Welter AN, Robideau RR. 1986. relative sensitivity of three daphnid species to selected organic and inorganic chemicals. Environ Toxicol Chem 5: 393-398.		
		Aquatic plants	Selenastrum capricornutum (Pseudokirchnerell a subcapitata) 717 mg/L (96 h) [1]		
CAS No: 78-83-1	EC No: 201-148-0		[1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.		
		Fish	LC50 Pimephales promelas 1376 mg/L (96 h) [1]		
			[1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.		
butan-1-ol		Aquatic invertebrates	EC50 Daphnia magna 1328 mg/L (48 h) [1] [1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.		
		Aquatic plants	Selenastrum capricornutum (Pseudokirchnerell a subcapitata)		
CAS No: 71-36-3	EC No: 200-751-6		[1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.		

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
ethylbenzene		2.45			Markania
CAS No: 100-41-4	EC No: 202-849-4	3,15	-	-	Moderate
2,6-dimethylheptan-4-one, di-isobutyl ketone		2.56			Law
CAS No: 108-83-8	EC No: 203-620-1	2,56	-	-	Low
2-methylpropan-1-ol, iso-butanol		0.75			Vandlau
CAS No: 78-83-1	EC No: 201-148-0	0,76	-	-	Very low
butan-1-ol		0.04			Vonclow
CAS No: 71-36-3	EC No: 200-751-6	0,84	-	-	Very low

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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 Other adverse effects.

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.

UN No: UN1263

14.2 UN proper shipping name.

Description:

ADR: UN 1263, PAINT RELATED MATERIAL, 3, PG III, (D/E) IMDG: UN 1263, PAINT RELATED MATERIAL, 3, PG III UN 1263, PAINT RELATED MATERIAL, 3, PG III ICAO/IATA:

14.3 Transport hazard class(es).

Class(es): 3

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.

Marine pollutant: No

14.6 Special precautions for user.

Labels: 3



Hazard number: 30 ADR LO: 5 L IMDG LQ: 5 L ICAO LQ: 10 L

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Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR. Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-E,S-E Proceed in accordance with point 6.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code.

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.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

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

H411

VOC content (p/p): 30,549 % VOC content: 406,299 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.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): N/A

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

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

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.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
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 <or affected,="" all="" if="" known="" organs="" state=""> through prolonged or repeated exposu</or>
<state exp<="" of="" route="" th=""><th>posure if it is conclusively proven that no other routes of exposure cause the hazard>.(órganos de audición)</th></state>	posure if it is conclusively proven that no other routes of exposure cause the hazard>.(órganos de audición)
11444	

Toxic to aquatic life with long lasting effects.

repeated exposure

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Classification codes:

Acute Tox. 3: Acute toxicity (Dermal), Category 3
Acute Tox. 3: Acute toxicity (Inhalation), Category 3
Acute Tox. 3: Acute toxicity (Oral), Category 3
Acute Tox. 4: Acute toxicity (Dermal), Category 4
Acute Tox. 4: Acute toxicity (Inhalation), Category 4
Acute Tox. 4: Acute toxicity (Oral), Category 4

Aquatic Chronic 2: Chronic effect to the aquatic environment, Category 2

Asp. Tox. 1 : Aspiration toxicity, Category 1
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 Corr. 1B : Skin Corrosive, Category 1B
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).
- Changes in the composition of the product (SECTION 3.2).
- Modification in the values of the physical and chemical properties (SECTION 9).
- Change in the hazard classification (SECTION 11.1).
- National legislative changes (SECTION 15.1).

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.

Abbreviations and acronyms used:

ADR: European 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%.

Log Pow: Logarithm of the partition octanol-water. 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:

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http://eur-lex.europa.eu/homepage.html http://echa.europa.eu/ Regulation (EU) 2015/830. Regulation (EC) No 1907/2006. Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

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.