

ULTRIMAX POLYURETHANE FAST HARDENER

HEALTH AND SAFETY DATA SHEET

COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

Date of compilation: 22/02/2017


Revised Date: 27/09/2023

Version: 8

1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product Code	Polyurethane Fast Hardener UMX017
	Other means of identification	WO3017H - 2.5L WO3017H-10 - 10L
1.2	Relevant identified uses of the substance or mixture and uses advised against	Relevant uses: Hardener for coatings. For industrial use only. Uses advised against: All uses not specified in this section for in section 7.3
1.3	Name, Address, Telephone Number of the chemical manufacturer	Ultrimax Coatings Ltd Shaw Lane Industrial Estate, Ogden Road, Doncaster, DN2 4SE 01302 856666
1.4	Emergency phone number	01302 856666

2. HAZARD(S) IDENTIFICATION

2.1	Classification of the substance or mixture	<p>Classification of this product has been carried out in accordance with CLP Regulation(EC) No 1272/2008.</p> <p>Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 2: Flammable liquids, Category 2, H225 Repr. 2: Reproductive toxicity, Category 2, H361d Resp. Sens. 1: Sensitisation, respiratory, Category 1, H334 Skin Irrit.2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317 STOT RE 2: Specific target organ toxicity — Repeated exposure, Hazard Category 2, H373 STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336</p>
	CLP Regulation (EC) No 1272/2008	
2.2	Label elements	Danger
	CLP Regulation (EV) No 1272/2008	
	Hazard statements	<p>Causes serious eye irritation.</p> <p>High flammable liquid and vapour.</p> <p>Suspected of damaging the unborn child.</p> <p>May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes skin irritation.</p> <p>May cause an allergic skin reaction.</p> <p>May cause damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness.</p>
Precautionary statements	<p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention.</p> <p>In case of fire: Use ABC powder extinguisher to extinguish.</p>	

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	Supplementary information	Contains isocyanates. May produce an allergic reaction.
2.2	Substances that contribute to the classification	N-butyl acetate; Ethyl acetate; Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylidene-trimethanol (<0.1 % O=C=N-R-N=C=O); Toluene
	Additional Labelling	As from 24 August 2023 adequate training is required before industrial or professional use.
2.3	Other hazards	Product does not meet PBT/vPvB criteria Endocrine-disrupting properties: The product does not meet the criteria.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1	Substances	Not applicable (N/A)		
	Mixtures	polyisocyanate		
	Chemical description	In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:		
3.2	Components	Identification	Chemical name/Classification	Concentration
		CAS: 123-86-4 EC: 204-658-1 Index: 607-025-00-1 REACH: 01-2119485493-29-XXXX	N-butyl acetate ⁽¹⁾ ATP CLP00 Regulation 1272/2008 Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	25-<50%
		CAS: 141-78-6 EC: 205-500-4 Index: 607-022-00-5 REACH: 01-2119475103-46-XXXX	Ethyl acetate ⁽¹⁾ ATP CLP00 Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	25-<50%
		CAS: 53317-61-6 EC: 500-120-8 Index: Non-applicable REACH: Non-applicable	Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylidene-trimethanol (<0.1 % O=C=N-R-N=C=O) ⁽¹⁾ Self-Classified Regulation 1272/2008 Eye Irrit. 2: H319; Skin Sens. 1: H317 - Warning	10-<25%
		CAS: 108-88-3 EC: 203-625-9 Index: 601-021-00-3 REACH: 01-2119471310-51-XXXX	Toluene ⁽¹⁾ Self-Classified Regulation 1272/2008 Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Flam. Liq. 2: H225; Repr. 2: H361d; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H336 - Danger	10-<25%
		CAS: 9017-01-0 EC: 618-500-8 Index: Non-applicable REACH: Non-applicable	Aromatic polyisocyanate (<0.1 % O=C=N-R-N=C=O) ⁽¹⁾ Self-Classified Regulation 1272/2008 Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Sens. 1: H317 - Danger	10-<25%
		CAS: 26471-62-5 EC: 247-722-4 Index: 615-006-00-4 REACH: 01-2119454791-34-XXXX	Toluene Diisocyanate ⁽¹⁾ ATP CLP000 Regulation 1272/2008 Acute Tox. 2: H330; Aquatic Chronic 3: H412; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger	<0.25%
		⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878		

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3.2	Other information	Identification		Specific concentration limit	
		Toluene Diisocyanate CAS: 26471-62-5 EC: 247-722-4		% (w/w) >=0,1: Resp. Sens. 1 - H334	
		Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:			
		Identification		Acute Toxicity	
Toluene Diisocyanate CAS: 26471-62-5 EC: 247-722-4		LD50 oral	N/A		
		LD50 dermal	N/A		
		LC50 inhalation	0.5mg/L (ATEI)		

4. FIRST AID MEASURES

4.1	Description of first aid measures	The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.
	By inhalation	Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.
	By skin contact	Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.
	By eye contact	Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.
	By ingestion/aspiration	Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.
4.2	Most important symptoms and effects, both acute and delayed	Acute and delayed effect are indicated in sections 2 and 11.
4.3	Indication of any immediate medical attention and special treatment needed	Not Relevant

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5. FIREFIGHTING MEASURES

5.1	Extinguishing media	If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO ₂).
	Suitable extinguishing media	
	Unsuitable extinguishing media	IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.
5.2	Special hazards arising from the substance or mixture	As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.
5.3	Advice for firefighters	Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.
	Additional provisions	Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6. ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures	Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.
	For Non-emergency personnel	
	For emergency responders	
6.2	Environmental precautions	It is recommended to avoid environmental spillage of both the product and its container.
6.3	Methods and material for containment and cleaning up	It is recommended: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.
6.4	Reference to other sections	See sections 8 and 13.

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Version: 17

7. HANDLING AND STORAGE

7.1	Precautions for safe handling	A	<p>General Precautions for safe use</p> <p>Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods(section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.</p>
		B	<p>Technical recommendations for the prevention of fires and explosions</p> <p>Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition(mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.</p>
	Precautions for safe handling	C	<p>Technical recommendations on general occupational hygiene</p> <p>PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.</p>
		D	<p>Technical recommendations to prevent environmental risks</p> <p>It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)</p>
7.2	Conditions for safe storage, including any incompatibilities	A	<p>Technical measures for storage</p> <p>Minimum Temp: 5°C</p>
		B	<p>General conditions for storage</p> <p>Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5.</p>
7.3	Specific end use(s)		<p>Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product</p>

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control Parameters	Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation): Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:					
		Identification			Occupational exposure limits		
		Toluene CAS: 108-88-3 EC: 203-625-9			IOELV (8h)	50ppm	192mg/m ³
					IOELV (STEL)	100ppm	384mg/m ³
		N-butyl acetate CAS: 123-86-4 EC: 204-658-1			IOELV (8h)	50ppm	241mg/m ³
			IOELV (STEL)	150ppm	723mg/m ³		
Ethyl acetate CAS: 141-78-6 EC: 205-500-4			IOELV (8h)	200ppm	734mg/m ³		
			IOELV (STEL)	400 ppm	1468mg/m ³		
DNEL (Workers)	Identification		Short exposure		Long exposure		
			Systemic	Local	Systemic	Local	
	N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
		Dermal	11 mg/kg	Non-applicable	11 mg/kg	Non-applicable	
		Inhalation	600 mg/m ³	600 mg/m ³	300 mg/m ³	300 mg/m ³	
	Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
		Dermal	Non-applicable	Non-applicable	63 mg/kg	Non-applicable	
		Inhalation	1468mg/m ³	1468 mg/m ³	734 mg/m ³	734 mg/m ³	
	Toluene CAS: 108-88-3 EC: 203-625-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
		Dermal	Non-applicable	Non-applicable	384 mg/kg	Non-applicable	
		Inhalation	384 mg/m ³	384 mg/m ³	192 mg/m ³	192 mg/m ³	
	Toluene Diisocyanate CAS: 26471-62-5 EC: 247-722-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
		Dermal	Non-applicable	Non-applicable	0,14 mg/kg	Non-applicable	
		Inhalation	Non-applicable	0,035 mg/m ³	0,035 mg/m ³	0,14 mg/m ³	

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Version: 17

	Identification	Short exposure		Long exposure		
		Systemic	Local	Systemic	Local	
DNEL (General population)	N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	2 mg/kg	Non-applicable	2 mg/kg	Non-applicable
		Dermal	6 mg/kg	Non-applicable	6 mg/kg	Non-applicable
		Inhalation	300 mg/m ³	300 mg/m ³	35,7 mg/m ³	35,7 mg/m ³
	Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	Non-applicable	Non-applicable	4,5 mg/kg	Non-applicable
		Dermal	Non-applicable	Non-applicable	37 mg/kg	Non-applicable
		Inhalation	734 mg/m ³	734 mg/m ³	367 mg/m ³	367 mg/m ³
	Toluene CAS: 108-88-3 EC: 203-625-9	Oral	Non-applicable	Non-applicable	8,13 mg/kg	Non-applicable
		Dermal	Non-applicable	Non-applicable	226 mg/kg	Non-applicable
		Inhalation	226 mg/m ³	226 mg/m ³	56,5 mg/m ³	56,5 mg/m ³
8.1	Identification					
	N-butyl acetate CAS: 123-86-4 EC: 204-658-1	STP	35,6 mg/L	Fresh Water	0,18 mg/L	
		Soil	0,09 mg/kg	Marine Water	0,018 mg/L	
		Intermittent	0,36 mg/L	Sediment (FW)	0,981 mg/kg	
		Oral	Non-applicable	Sediment (MW)	0,098 mg/kg	
	Ethyl acetate CAS: 141-78-6 EC: 205-500-4	STP	650 mg/L	Fresh Water	0,24 mg/L	
		Soil	0,148 mg/kg	Marine Water	0,024 mg/L	
		Intermittent	1,65 mg/L	Sediment (FW)	1,15 mg/kg	
		Oral	0,2 g/kg	Sediment (MW)	0,115 mg/kg	
	Toluene CAS: 108-88-3 EC: 203-625-9	STP	13,61 mg/L	Fresh Water	0,68 mg/L	
		Soil	2,89 mg/kg	Marine Water	0,68 mg/L	
		Intermittent	0,68 mg/L	Sediment (FW)	16,39 mg/kg	
		Oral	Non-applicable	Sediment (MW)	16,39 mg/kg	
	Toluene Diisocyanate CAS: 26471-62-5 EC: 247-722-4	STP	1mg/L	Fresh Water	0.013mg/L	
		Soil	1mg/kg	Marine Water	0.001mg/L	
		Intermittent	0.125mg/L	Sediment (FW)	Non-applicable	
		Oral	Non-applicable	Sediment (MW)	Non-applicable	
	PNEC					

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8.2	Exposure controls	A	<p>Individual protection measures, such as personal protective equipment</p> <p>In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 2016/425/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.</p> <p>All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.</p>														
		B	<p style="text-align: center;">Respiratory protection</p> <table border="1"> <thead> <tr> <th>Pictogram</th> <th>PPE</th> <th>Labelling</th> <th>CEN Standard</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>  Mandatory respiratory tract protection </td> <td>Filter mask for gases, vapours and particles</td> <td>  </td> <td> EN 149:2001+A1:2009 EN 405:2022+A1:2010 EN ISO 136:1998 </td> <td>Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.</td> </tr> </tbody> </table>					Pictogram	PPE	Labelling	CEN Standard	Remarks	 Mandatory respiratory tract protection	Filter mask for gases, vapours and particles		EN 149:2001+A1:2009 EN 405:2022+A1:2010 EN ISO 136:1998	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.
		Pictogram	PPE	Labelling	CEN Standard	Remarks											
 Mandatory respiratory tract protection	Filter mask for gases, vapours and particles		EN 149:2001+A1:2009 EN 405:2022+A1:2010 EN ISO 136:1998	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.													
C	<p style="text-align: center;">Specific protection for the hands</p> <table border="1"> <thead> <tr> <th>Pictogram</th> <th>PPE</th> <th>Labelling</th> <th>CEN Standard</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>  Mandatory hand protection </td> <td>Chemical protective gloves (material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062mm)</td> <td>  </td> <td>EN ISO 21420:2020</td> <td>Replace the gloves at any sign of deterioration.</td> </tr> </tbody> </table> <p>As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and is to be checked prior to the application.</p>					Pictogram	PPE	Labelling	CEN Standard	Remarks	 Mandatory hand protection	Chemical protective gloves (material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062mm)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.		
Pictogram	PPE	Labelling	CEN Standard	Remarks													
 Mandatory hand protection	Chemical protective gloves (material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062mm)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.													

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HEALTH AND SAFETY DATA SHEET

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Date of compilation: 22/02/2017

Revised Date: 02/02/2024

Version: 17

8.2	Exposure controls	Eye and face protection				
		Pictogram	PPE	Labelling	CEN Standard	Remarks
		 Mandatory face protection	Face Shield		EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacture's instructions. Use if there is a risk of splashing.
		Body protection				
		Pictogram	PPE	Labelling	CEN Standard	Remarks
		 Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties		EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
		 Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties.		EN ISO 13287:2020 EN ISO 20345:2011 EN 13832-1:2019	Replace the boots at any sign of deterioration.
		Additional Emergency measures				
		Emergency measure	Standards	Emergency Measure	Standards	
		Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 38644:2011	
	Environmental exposure controls	In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D.				
	Volatile organic compounds	With regard to Directive 2010/75/EU, this product has the following characteristics: V.O.C (Supply): 70.73% weight V.O.C. density at 25°C: 671.98kg/m ³ (671.98 g/L) Average carbon number: 5.43 Average molecular weight: 100.62 g/mol				

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties		For complete information see the product datasheet	
9.1	Appearance	Physical state at 20°C	Liquid
		Appearance	N/A
		Colour	N/A
		Odour	N/A
		Odour Threshold	N/A*
	Volatility	Boiling point at atmospheric pressure	99°C
		Vapour pressure at 25°C	6941Pa
		Vapour pressure at 50°C	21236.76pa (21.24 Kpa)
		Evaporation rate at 25°C	N/A*
	Product description	Density at 25°C	950kg/m ³
		Relative density at 25°C	0.95
		Dynamic viscosity at 25°C	614.26 cP
		Kinematic viscosity at 25°C	646.58mm ² /s
		Kinematic viscosity at 40°C	>20.5mm ² /s
		Concentration	N/A*
		pH	N/A*
		Vapour density at 25 °C	N/A*
		Partition coefficient n-octanol/water 25 °C	N/A*
		Solubility in water at 25 °C	N/A*
		Solubility properties	N/A*
Decomposition temperature		N/A*	
Melting point/freezing point		N/A*	
Flammability	Flash point	8°C	
	Flammability (solid, gas)	N/A*	
	Autoignition temperature	421°C	
	Lower flammability limit	N/A*	
	Upper flammability limit	N/A*	
Particle characteristics	Median equivalent diameter	N/A	
9.2	Other information Information with regard to physical hazard classes	Explosive properties	N/A*
		Oxidising properties	N/A*
		Corrosive to metals	N/A*
		Heat of combustion	N/A*
		Aerosols-total percentage (by mass) of flammable components	N/A
	Other safety characteristics	Surface tension at 25°C	N/A*
Refraction index		N/A*	

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10. STABILITY AND REACTIVITY

10.1	Reactivity	No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.										
10.2	Chemical stability	Chemically stable under the indicated conditions of storage, handling and use										
10.3	Possibility of hazardous reactions	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected										
10.4	Conditions to avoid	<p>Applicable for handling and storage at room temperature:</p> <table border="1"> <tr> <td>Shock and friction</td> <td>N/A</td> </tr> <tr> <td>Contact with air</td> <td>N/A</td> </tr> <tr> <td>Increase in temperature</td> <td>Avoid Direct Impact</td> </tr> <tr> <td>Sunlight</td> <td>Avoid Direct Impact</td> </tr> <tr> <td>Humidity</td> <td>Avoid Direct Impact</td> </tr> </table>	Shock and friction	N/A	Contact with air	N/A	Increase in temperature	Avoid Direct Impact	Sunlight	Avoid Direct Impact	Humidity	Avoid Direct Impact
Shock and friction	N/A											
Contact with air	N/A											
Increase in temperature	Avoid Direct Impact											
Sunlight	Avoid Direct Impact											
Humidity	Avoid Direct Impact											
10.5	Incompatible materials	<table border="1"> <tr> <td>Acids</td> <td>Precaution</td> </tr> <tr> <td>Water</td> <td>Avoid Direct Impact</td> </tr> <tr> <td>Oxidising materials</td> <td>Avoid direct impact</td> </tr> <tr> <td>Combustible materials</td> <td>N/A</td> </tr> <tr> <td>Others</td> <td>Avoid alkalines, heavy metals, reducing agents, peroxide accelerating agents.</td> </tr> </table>	Acids	Precaution	Water	Avoid Direct Impact	Oxidising materials	Avoid direct impact	Combustible materials	N/A	Others	Avoid alkalines, heavy metals, reducing agents, peroxide accelerating agents.
Acids	Precaution											
Water	Avoid Direct Impact											
Oxidising materials	Avoid direct impact											
Combustible materials	N/A											
Others	Avoid alkalines, heavy metals, reducing agents, peroxide accelerating agents.											
10.6	Hazardous decomposition products	See subsection 10.3, 10.4 and 10.5 to find out the specified composition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO ₂), carbon monoxide and other organic compounds.										

11. TOXICOLOGICAL INFORMATION

11.1	Information on hazard classes as defined in Regulation (EC) No 1272/2008	The experimental information related to the toxicological properties of the product itself is not available.
	Dangerous health implications	In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

ULTRIMAX POLYURETHANE FAST HARDENER

HEALTH AND SAFETY DATA SHEET

COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

Date of compilation: 22/02/2017

Revised Date: 02/02/2024

Version: 17

11.1	Dangerous health implications	<p>Ingestion (acute effect):</p> <ul style="list-style-type: none"> Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3. Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
		<p>Inhalation (acute effect):</p> <ul style="list-style-type: none"> Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3. Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
		<p>Contact with the skin and the eyes (acute effect):</p> <ul style="list-style-type: none"> Contact with the skin: Produces skin inflammation Contact with the eyes: Produces eye damage after contact
		<p>CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):</p> <ul style="list-style-type: none"> Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3. <p>IARC: Toluene (3); Toluene Diisocyanate (2B)</p> <ul style="list-style-type: none"> Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3. Reproductive toxicity: Suspected of damaging the unborn child.
		<p>Sensitizing effects</p> <ul style="list-style-type: none"> Respiratory: Prolonged exposure can result in specific respiratory hypersensitivity. Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
		<p>Specific target organ toxicity (STOT) - single exposure</p> <p>Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.</p>
		<p>Specific target organ toxicity (STOT)-repeated exposure</p> <ul style="list-style-type: none"> Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness. Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
		<p>Aspiration hazard</p> <p>Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.</p>

ULTRIMAX POLYURETHANE FAST HARDENER

HEALTH AND SAFETY DATA SHEET

COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

Date of compilation: 22/02/2017

Revised Date: 02/02/2024

Version: 17

		Identification		Acute Toxicity		Genus
11.1	Specific toxicology information on the substances	Toluene CAS: 108-88-3 EC: 203-625-9	LD50 oral	5580 mg/kg		Rat
			LD50 dermal	12124 mg/kg		Rat
			LC50 inhalation	28,1 mg/L (4 h)		Rat
		N-butyl acetate CAS: 123-86-4 EC: 204-658-1	LD50 oral	12789 mg/kg		Rat
			LD50 dermal	14112 mg/kg		Rabbit
			LC50 inhalation	23,4 mg/L (4 h)		Rat
		Aromatic polyisocyanate (<0.1% O=C=N-R-N=C=O) CAS: 9017-01-0 EC: 618-500-8	LD50 oral	>2000 mg/kg		
			LD50 dermal	>2000 mg/kg		
			LC50 inhalation	>20 mg/L		
		Ethyl acetate CAS: 141-78-6 EC: 205-500-4	LD50 oral	4100 mg/kg		Rat
			LD50 dermal	20000 mg/kg		Rabbit
			LC50 inhalation	>20 mg/L		
		Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylidene trimethanol (<0.1% O=C=N-R-N=C=O) CAS: 53317-61-6 EC: 500-120-8	LD50 oral	>2000 mg/kg		
			LD50 dermal	>2000 mg/kg		
			LC50 inhalation	>20 mg/L		
Toluene Diisocyanate CAS: 26471-62-5 EC: 247-722-4	LD50 oral	3360 mg/kg		Rat		
	LD50 dermal	>2000 mg/kg				
	LC50 inhalation	0,5 mg/L (ATEi)				
11.2	Information on other hazards Endocrine disrupting properties Other information	Endocrine-disrupting properties: The product does not meet the criteria				
		N/A				

ULTRIMAX POLYURETHANE FAST HARDENER

HEALTH AND SAFETY DATA SHEET

COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

Date of compilation: 22/02/2017

Revised Date: 02/02/2024

Version: 17

12. ECOLOGICAL INFORMATION

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

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

12.1	Toxicity	Identification	Concentration		Species	Genus	
			LC50	EC50			
Acute toxicity	N-butyl acetate CAS: 123-86-4 EC: 204-658-1		LC50	Non-applicable			
			EC50	Non-applicable			
		Ethyl acetate CAS: 141-78-6 EC: 205-500-4		EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae
				LC50	230 mg/L (96 h)	Pimephales promelas	Fish
				EC50	717 mg/L (48 h)	Daphnia magna	Crustacean
		EC50		3300 mg/L (48 h)	Scenedesmus subspicatus	Algae	
	Toluene CAS: 108-88-3 EC: 203-625-9		LC50	13 mg/L (96 h)	Carassius auratus	Fish	
			EC50	11,5 mg/L (48 h)	Daphnia magna	Crustacean	
		EC50	Non-applicable				
	Toluene Diisocyanate CAS: 26471-62-5 EC: 247-722-4		LC50	133 mg/L (96 h)	Oncorhynchus mykiss	Fish	
			EC50	12,5 mg/L (48 h)	Daphnia magna	Crustacean	
		EC50	4300 mg/L (96 h)	Chlorella vulgaris	Algae		
Chronic toxicity	N-butyl acetate CAS: 123-86-4 EC: 204-658-1		NOEC	Non-applicable			
			NOEC	23,2 mg/L	Daphnia magna	Crustacean	
	Ethyl acetate CAS: 141-78-6 EC: 205-500-4		NOEC	9,65 mg/L	Pimephales promelas	Fish	
			NOEC	2,4 mg/L	Daphnia magna	Crustacean	
	Toluene Diisocyanate CAS: 26471-62-5 EC: 247-722-4		NOEC	Non-applicable			
			NOEC	1,1 mg/L	Daphnia magna	Crustacean	

ULTRIMAX POLYURETHANE FAST HARDENER

HEALTH AND SAFETY DATA SHEET

COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

Date of compilation: 22/02/2017

Revised Date: 02/02/2024

Version: 17

12.2	Persistence and degradability	Identification				Degradability		Biodegradability		
	Substance-specific information	N-butyl acetate CAS: 123-86-4 EC: 204-658-1	BOD5	N/A	Concentration	N/A				
			COD	N/A	Period	5 days				
			BOD5/COD	N/A	% Biodegradable	84%				
		Ethyl acetate CAS: 141-78-6 EC: 205-500-4	BOD5	1,36 g O2/g	Concentration	100 mg/L				
			COD	1,69 g O2/g	Period	14 days				
			BOD5/COD	0,8	% Biodegradable	83 %				
		Toluene CAS: 108-88-3 EC: 203-625-9	BOD5	2,5 g O2/g	Concentration	100 mg/L				
			COD	N/A	Period	14 days				
			BOD5/COD	N/A	% Biodegradable	100 %				
12.3	Bioaccumulative potential	Identification				Bioaccumulation potential				
	Substance-specific information	N-butyl acetate CAS: 123-86-4 EC: 204-658-1	BCF		4					
			Pow Log		1.78					
			Potential		Low					
		Ethyl acetate CAS: 141-78-6 EC: 205-500-4	BCF		30					
			Pow Log		0.73					
			Potential		Moderate					
		Toluene CAS: 108-88-3 EC: 203-625-9	BCF		90					
			Pow Log		2.73					
			Potential		Moderate					
12.4	Mobility in soil	Identification		Absorption/desorption		Volatility				
		N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Koc		Non-applicable		Henry	Non-applicable		
			Conclusion		Non-applicable		Dry Soil	Non-applicable		
			Surface Tension		2,478E-2 N/m (25 °C)		Moist Soil	Non-applicable		
		Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Koc		59		Henry	13,58 Pa·m ³ /mol		
			Conclusion		Very High		Dry Soil	Yes		
			Surface Tension		2,324E-2 N/m (25 °C)		Moist Soil	Yes		
		Toluene CAS: 108-88-3 EC: 203-625-9	Koc		178		Henry	672,8 Pa·m ³ /mol		
			Conclusion		Moderate		Dry Soil	Yes		
			Surface Tension		2,793E-2 N/m (25 °C)		Moist Soil	Yes		
12.5	Results of PBT and vPvB assessment	Product does not meet PBT/vPvB criteria								
12.6	Endocrine disrupting properties	Endocrine-disrupting properties: The product does not meet the criteria								
12.7	Other adverse effects	Not described								

ULTRIMAX POLYURETHANE FAST HARDENER

HEALTH AND SAFETY DATA SHEET

COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

Date of compilation: 22/02/2017

Revised Date: 02/02/2024

Version: 17

13. DISPOSAL CONSIDERATIONS

	Waste treatment methods	Code	Description	Waste Class (Regulation (EU) No 1357/2014)
		08 01 11*	Waste paint and varnish containing organic solvents or other hazardous substances	Dangerous
13.1	Type of waste (Regulation (EU) No 1357/2014)	HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP10 Toxic for reproduction, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage		
	Waste management (disposal and evaluation)	Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.		
	Regulations related to waste management	In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014.		

14. TRANSPORT INFORMATION

		Transport of dangerous goods by land With regard to ADR 2023 and RID 2023	Transport of dangerous goods by sea With regard to IMDG 40-20	Transport of dangerous goods by air With regard to IATA/ICAO 2023
14.1	UN number or ID number	UN1263	UN1263	UN1263
14.2	UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3	Transport hazard class(es)	3	3	3
	Labels	3	3	3
14.4	Packing group	III	III	III
14.5	Environmental hazards	No	No	No
14.6	Special precautions for user			
	Special regulations	163, 367, 650	223, 955, 163, 367	
	EmS Codes		F-E, S-E	
	Tunnel restriction code	D/E		see section 9
	Physico-Chemical properties	see section 9	see section 9	
	Limited quantities	5L	5L	
	Segregation Group		Not Relevant	
14.7	Maritime transport in bulk according to IMO instruments	Not Relevant	Not Relevant	Not Relevant

ULTRIMAX POLYURETHANE FAST HARDENER

HEALTH AND SAFETY DATA SHEET

COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

Date of compilation: 22/02/2017

Revised Date: 02/02/2024

Version: 17

15. REGULATORY INFORMATION

<p>Safety, health and environmental regulations/legislation specific for the substance or mixture</p>	<p>Candidate substances for authorisation under the Regulation (EC) No 1907/2006(REACH): Non-applicable Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable Regulation (EC) No 1005/2009,about substances that deplete the ozone layer: Non-applicable Article 95, REGULATION (EU) No 528/2012:Non-applicable REGULATION (EU) No 649/2012,in relation to the import and export of hazardous chemical products: Non-applicable</p>											
<p>Seveso III</p>	<table border="1"> <thead> <tr> <th data-bbox="766 786 850 871">Section</th> <th data-bbox="850 786 1090 871">Description</th> <th data-bbox="1090 786 1257 871">Lower-tier requirements</th> <th data-bbox="1257 786 1430 871">Upper-tier requirements</th> </tr> </thead> <tbody> <tr> <td data-bbox="766 871 850 898">P5c</td> <td data-bbox="850 871 1090 898">FLAMMABLE LIQUIDS shall not be used in:</td> <td data-bbox="1090 871 1257 898">5000</td> <td data-bbox="1257 871 1430 898">50000</td> </tr> </tbody> </table>				Section	Description	Lower-tier requirements	Upper-tier requirements	P5c	FLAMMABLE LIQUIDS shall not be used in:	5000	50000
Section	Description	Lower-tier requirements	Upper-tier requirements									
P5c	FLAMMABLE LIQUIDS shall not be used in:	5000	50000									
<p>15.1 Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc...)</p>	<ul style="list-style-type: none"> ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays tricks and jokes games for one or more participants, or any article intended to be used as such, even with ornamental aspects. <p>Contains more than 0.1 % of Toluene by weight. Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0,1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.</p> <p>Contains more than 0.1 % of Toluene Diisocyanate by weight. 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:</p> <p>(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).</p> <p>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:</p> <p>(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 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".</p> <p>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.</p> <p>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.</p> <p>That training shall cover as a minimum:</p> <p>(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:</p>											

ULTRIMAX POLYURETHANE FAST HARDENER

HEALTH AND SAFETY DATA SHEET

COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

Date of compilation: 22/02/2017

Revised Date: 02/02/2024

Version: 17

<p>15.1</p>	<p>Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc...)</p>	<p>handling open mixtures at ambient temperature (including foam tunnels)</p> <p>Spraying in a ventilated booth</p> <p>application by roller</p> <p>application by brush</p> <p>application by dipping and pouring</p> <p>mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore</p> <p>Cleaning and waste</p> <p>any other uses with similar exposure through the dermal and/or inhalation route</p> <p>(c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:</p> <p>handling incompletely cured articles (e.g. freshly cured, still warm)</p> <p>foundry applications</p> <p>Maintenance and repair that needs access to equipment</p> <p>open handling of warm or hot formulations (> 45 °C)</p> <p>spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers)</p> <p>and any other uses with similar exposure through the dermal and/or inhalation route.</p> <p>5. Training elements:</p> <p>(a) general training, including on-line training, on:</p> <p>chemistry of diisocyanates</p> <p>toxicity hazards (including acute toxicity)</p> <p>exposure to diisocyanates</p> <p>occupational exposure limit values</p> <p>how sensitisation can develop</p> <p>odour as indication of hazard</p> <p>importance of volatility for risk</p> <p>viscosity, temperature, and molecular weight of diisocyanates</p> <p>personal hygiene</p> <p>personal protective equipment needed, including practical instructions for its correct use and its limitations</p> <p>risk of dermal contact and inhalation exposure</p> <p>risk in relation to application process used</p> <p>skin and inhalation protection scheme</p> <p>ventilation</p> <p>cleaning, leakages, maintenance</p> <p>discarding empty packaging</p> <p>protection of bystanders</p> <p>identification of critical handling stages</p> <p>specific national code systems (if applicable)</p> <p>behaviour-based safety</p> <p>certification or documented proof that training has been successfully completed</p> <p>(b) intermediate level training, including on-line training, on:</p> <p>additional behaviour-based aspects</p> <p>maintenance</p> <p>management of change</p> <p>evaluation of existing safety instructions</p> <p>risk in relation to application process used</p> <p>certification or documented proof that training has been successfully completed</p>
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ULTRIMAX POLYURETHANE FAST HARDENER

HEALTH AND SAFETY DATA SHEET

COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

Date of compilation: 22/02/2017

Revised Date: 02/02/2024

Version: 17

15.1	Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc...)	<p>(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) certification or documented proof that training has been successfully completed</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>9. Member States shall include in their reports pursuant to Article 117(1) the following information:</p> <p>(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.</p> <p>10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the workplace.</p>
	Specific provisions in terms of protecting people or the environment	It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.
	Other Legislation	The product could be affected by sectorial legislation
15.2	Chemical safety assessment	The supplier has not carried out evaluation of chemical safety

ULTRIMAX POLYURETHANE FAST HARDENER

HEALTH AND SAFETY DATA SHEET

COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

Date of compilation: 22/02/2017

Revised Date: 02/02/2024

Version: 17

16. OTHER INFORMATION

Legislation related to safety data sheets	The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).
Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks	COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12): <ul style="list-style-type: none"> • New declared substances <ul style="list-style-type: none"> ◦ Toluene Diisocyanate (26471-62-5) • CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16) <ul style="list-style-type: none"> ◦ Precautionary statements ◦ REGULATORY INFORMATION (SECTION 15) <ul style="list-style-type: none"> ▪ Limitations to commercialisation and the use of certain dangerous substances and mixtures (annex XVII REACH etc...)
Texts of the legislative phrases mentioned in section 2	H315: Causes skin irritation. H336: May cause drowsiness or dizziness. H373: May cause damage to organs through prolonged or repeated exposure. H361d: Suspected of damaging the unborn child. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317: May cause an allergic skin reaction. H225: Highly flammable liquid and vapour. H319: Causes serious eye irritation.
Texts of the legislative phrases mentioned in section 3	The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.
CLP regulation (EC) no 1272/2008	Acute Tox. 2: H330 - Fatal if inhaled. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects. Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. Carc. 2: H351 - Suspected of causing cancer. Eye Irrit. 2: H319 - Causes serious eye irritation. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Flam. Liq. 3: H226 - Flammable liquid and vapour. Repr. 2: H361d - Suspected of damaging the unborn child. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure. STOT SE 3: H335 - May cause respiratory irritation. STOT SE 3: H336 - May cause drowsiness or dizziness

ULTRIMAX POLYURETHANE FAST HARDENER

HEALTH AND SAFETY DATA SHEET

COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

Date of compilation: 22/02/2017

Revised Date: 02/02/2024

Version: 17

Classification procedure	<p>Skin Irrit. 2: Calculation method STOT SE 3: Calculation method STOT RE 2: Calculation method Repr. 2: Calculation method Resp. Sens. 1: Calculation method Skin Sens. 1: Calculation method Flam. Liq. 2: Calculation method (2.6.4.3) Eye Irrit. 2: Calculation method</p>
Advice related to training	<p>Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.</p>
Principal bibliographical sources	<p>http://echa.europa.eu http://eur-lex.europa.eu</p>
Abbreviations and acronyms	<p>ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: ChemicalOxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration50 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon UFI:unique formula identifier IARC: International Agency for Research on Cancer</p>