

Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### HARDENER FOR DTM PRIMER SEALER 1:4 FAST

Printing:	28/03/2023 Date of compilation: 05/12/2022 Version: 1
SECT	TON 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier:HARDENER FOR DTM PRIMER SEALER 1:4 FASTOther means of identification:HARDENER FOR DTM PRIMER SEALER 1:4 FAST
	UFI: GFRW-YHEC-9C0H-00EU
1.2	Relevant identified uses of the substance or mixture and uses advised against:
	Relevant uses: Car repair; hardener for coatings. For professional users only.
1.3	Uses advised against: All uses not specified in this section or in section 7.3 Details of the supplier of the safety data sheet:
	Troton Sp. z o.o. Ząbrowo 14A 78-120 Gościno - Zachodniopomorskie - Polska Phone: +48 94 35 123 94 - Fax: +48 94 35 126 22 troton@troton.com.pl www.troton.pl / www.troton.eu
1.4	Emergency telephone number: (8am-4pm)+48 094 35 123 94; 112
SECT	TION 2: HAZARDS IDENTIFICATION
2.1	Classification of the substance or mixture:
	CLP Regulation (EC) No 1272/2008:
	Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
	Acute Tox. 4: Acute inhalation toxicity, Category 4, H332 Carc. 2: Carcinogenicity, Category 2, H351 Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 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 (Oral), H373 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335
2.2	Label elements:
	CLP Regulation (EC) No 1272/2008: Warning
	Hazard statements:
	Acute Tox. 4: H332 - Harmful if inhaled. Carc. 2: H351 - Suspected of causing cancer. Eye Irrit. 2: H319 - Causes serious eye irritation. Flam. Liq. 3: H226 - Flammable liquid and vapour. 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 (Oral). STOT SE 3: H335 - May cause respiratory irritation.
	Precautionary statements:
	<ul> <li>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.</li> <li>P302+P352: IF ON SKIN: Wash with plenty of water.</li> <li>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to de Continue discussion.</li> </ul>
	<ul> <li>do. Continue rinsing.</li> <li>P308+P313: IF exposed or concerned: Get medical advice/attention.</li> <li>P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.</li> </ul>
	Supplementary information:



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SECT	TION 2: HAZARDS IDE	NTIFICATION (continued)					
	EUH204: Contains isocya	anates. May produce an allergic reaction.					
	Substances that cont	ribute to the classification					
	Hexamethylene diisocya	nate, oligomers; Xylene; 4-methylpentan-2-one; Ethylbenzene					
	Additional Labelling:						
	As from 24 August 2023	adequate training is required before industrial or professional use.					
2.3	Other hazards:						
	Product fails to meet PB	Γ/νΡνΒ criteria perties: The product fails to meet the criteria.					
CE C1							
SECI		N/INFORMATION ON INGREDIENTS					
3.1	Substance:						
	Non-applicable						
3.2	Mixture:						
	Chemical description:	Mixture composed of chemical products					
	Components:						
	In accordance with Anne	x II of Regulation (EC) No 1907/2006 (point 3), the product contains:					
	Identification	Chemical name/Classification	Concentration				
	CAS: 28182-81-2	Hexamethylene diisocyanate, oligomers <sup>(1)</sup> Self-classified					
	EC: 931-274-8 Index: Non-applicable REACH: 01-2119485796-17- XXXX	Regulation 1272/2008 Acute Tox. 4: H332; Skin Sens. 1: H317; STOT SE 3: H335 - Warning	25 - <50 %				
	CAS: 1330-20-7	Xylene <sup>(1)</sup> Self-classified					
	EC: 215-535-7 Index: 601-022-00-9 REACH: 01-2119488216-32- XXXX	Acute Tox. 4: H312+H332; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Eye Irrit.           Regulation 1272/2008         2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger	10 - <25 %				

REACH:	Non-applicable 01-2119485796-17- XXXX	Regulation 1272/2008	Acute Tox. 4: H332; Skin Sens. 1: H317; STOT SE 3: H335 - Warning	(1)	
	1330-20-7	Xylene <sup>(1)</sup>		Self-classified	
Index: REACH:	215-535-7 601-022-00-9 01-2119488216-32- XXXX	Regulation 1272/2008	Acute Tox. 4: H312+H332; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger	() () ()	10 - <25 %
	108-65-6	2-methoxy-1-methy	lethyl acetate <sup>(2)</sup>	ATP ATP01	
Index: REACH:	203-603-9 607-195-00-7 01-2119475791-29- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226 - Warning	٨	10 - <25 %
	123-86-4	N-butyl acetate <sup>(1)</sup>	etate <sup>(1)</sup> ATF		
Index: REACH:	204-658-1 607-025-00-1 01-2119485493-29- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	(1) (1)	10 - <25 %
	108-10-1	4-methylpentan-2-one <sup>(1)</sup>		ATP ATP17	
Index: REACH:	203-550-1 606-004-00-4 01-2119473980-30- XXXX	Regulation 1272/2008	Acute Tox. 4: H332; Carc. 2: H351; Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT S 3: H336; EUH066 - Danger	E 🚺 🕲 🚸	5 - <10 %
	100-41-4 202-849-4	Ethylbenzene <sup>(1)</sup>		ATP ATP06	
Index: REACH:	202-849-4 601-023-00-4 01-2119489370-35- XXXX	Regulation 1272/2008	Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger	(!) (*) (*)	1 - <2,5 %
	822-06-0	Hexamethylene-di-is	socyanate <sup>(1)</sup>	ATP CLP00	
Index: REACH:	212-485-8 615-011-00-1 01-2119457571-37- XXXX	Regulation 1272/2008	Acute Tox. 3: H331; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Irrit. 2: H315; S Sens. 1: H317; STOT SE 3: H335 - Danger	kin 🛞 🚯	<1 %

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878 <sup>(2)</sup> Substance with a Union workplace exposure limit

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

**Other information:** 

	Identification	Specific concentration limit		
CAS: 8	5/2-00-0	% (w/w) >=0,5: Resp. Sens. 1 - H334 % (w/w) >=0,5: Skin Sens. 1 - H317		

#### Printing: 28/03/2023 Date of compilation: 05/12/2022 Version: 1 SECTION 4: FIRST AID MEASURES 4.1 Description of first aid measures: The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product. By inhalation: Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance. By skin contact: Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection. 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. Most important symptoms and effects, both acute and delayed: 4.2 Acute and delayed effects are indicated in sections 2 and 11. 4.3 Indication of any immediate medical attention and special treatment needed: Non-applicable SECTION 5: FIREFIGHTING MEASURES 5.1 **Extinguishing media:** Suitable extinguishing media: If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>). 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.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

#### For non-emergency personnel:

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.



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### SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

#### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 Environmental precautions:

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

#### 6.3 Methods and material for containment and cleaning up:

It is recommended:

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

#### 6.4 Reference to other sections:

See sections 8 and 13.

#### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- General precautions for safe use

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

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

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

C.- Technical recommendations on general occupational hygiene

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

D.- Technical recommendations to prevent environmental risks

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

#### 7.2 Conditions for safe storage, including any incompatibilities:

A Technical measures for storage						
Minimum Temp.:	15 °C					
Maximum Temp.:	25 °C					

Maximum time: 12 Months

#### B.- General conditions for storage

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

#### 7.3 Specific end use(s):

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

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):



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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

# 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			
Xylene	IOELV (8h)	50 ppm	221 mg/m <sup>3</sup>	
CAS: 1330-20-7 EC: 215-535-7	IOELV (STEL)	100 ppm	442 mg/m <sup>3</sup>	
2-methoxy-1-methylethyl acetate	IOELV (8h)	50 ppm	275 mg/m <sup>3</sup>	
CAS: 108-65-6 EC: 203-603-9	IOELV (STEL)	100 ppm	550 mg/m <sup>3</sup>	
N-butyl acetate	IOELV (8h)	50 ppm	241 mg/m <sup>3</sup>	
CAS: 123-86-4 EC: 204-658-1	IOELV (STEL)	150 ppm	723 mg/m <sup>3</sup>	
4-methylpentan-2-one	IOELV (8h)	20 ppm	83 mg/m <sup>3</sup>	
CAS: 108-10-1 EC: 203-550-1	IOELV (STEL)	50 ppm	208 mg/m <sup>3</sup>	
Ethylbenzene	IOELV (8h)	100 ppm	442 mg/m <sup>3</sup>	
CAS: 100-41-4 EC: 202-849-4	IOELV (STEL)	200 ppm	884 mg/m <sup>3</sup>	

#### DNEL (Workers):

		Short e	exposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
Hexamethylene diisocyanate, oligomers	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 28182-81-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 931-274-8	Inhalation	Non-applicable	1 mg/m <sup>3</sup>	Non-applicable	0,5 mg/m <sup>3</sup>
Xylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	212 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	442 mg/m <sup>3</sup>	442 mg/m <sup>3</sup>	221 mg/m <sup>3</sup>	221 mg/m <sup>3</sup>
2-methoxy-1-methylethyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 108-65-6	Dermal	Non-applicable	Non-applicable	796 mg/kg	Non-applicable
EC: 203-603-9	Inhalation	Non-applicable	550 mg/m <sup>3</sup>	275 mg/m <sup>3</sup>	Non-applicable
N-butyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 123-86-4	Dermal	11 mg/kg	Non-applicable	11 mg/kg	Non-applicable
EC: 204-658-1	Inhalation	600 mg/m <sup>3</sup>	600 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>
4-methylpentan-2-one	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 108-10-1	Dermal	Non-applicable	Non-applicable	11,8 mg/kg	Non-applicable
EC: 203-550-1	Inhalation	208 mg/m <sup>3</sup>	208 mg/m <sup>3</sup>	83 mg/m <sup>3</sup>	83 mg/m <sup>3</sup>
Ethylbenzene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 100-41-4	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
EC: 202-849-4	Inhalation	Non-applicable	293 mg/m <sup>3</sup>	77 mg/m <sup>3</sup>	Non-applicable
Hexamethylene-di-isocyanate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 822-06-0	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 212-485-8	Inhalation	Non-applicable	0,07 mg/m <sup>3</sup>	Non-applicable	0,035 mg/m <sup>3</sup>

#### DNEL (General population):

		Short e	xposure	Long e	xposure
Identification	Identification		Local	Systemic	Local
Xylene	Oral	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	260 mg/m <sup>3</sup>	260 mg/m <sup>3</sup>	65,3 mg/m <sup>3</sup>	65,3 mg/m <sup>3</sup>
2-methoxy-1-methylethyl acetate	Oral	Non-applicable	Non-applicable	36 mg/kg	Non-applicable
CAS: 108-65-6	Dermal	Non-applicable	Non-applicable	320 mg/kg	Non-applicable
EC: 203-603-9	Inhalation	Non-applicable	Non-applicable	33 mg/m <sup>3</sup>	33 mg/m <sup>3</sup>
N-butyl acetate	Oral	2 mg/kg	Non-applicable	2 mg/kg	Non-applicable
CAS: 123-86-4	Dermal	6 mg/kg	Non-applicable	6 mg/kg	Non-applicable
EC: 204-658-1	Inhalation	300 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>	35,7 mg/m <sup>3</sup>	35,7 mg/m <sup>3</sup>
4-methylpentan-2-one	Oral	Non-applicable	Non-applicable	4,2 mg/kg	Non-applicable
CAS: 108-10-1	Dermal	Non-applicable	Non-applicable	4,2 mg/kg	Non-applicable
EC: 203-550-1	Inhalation	155,2 mg/m <sup>3</sup>	155,2 mg/m <sup>3</sup>	14,7 mg/m <sup>3</sup>	14,7 mg/m <sup>3</sup>



#### Printing: 28/03/2023 Date of compilation: 05/12/2022 Version: 1 SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued) Short exposure Long exposure Identification Systemic Systemic Local Local Ethylbenzene Oral Non-applicable Non-applicable 1,6 mg/kg Non-applicable CAS: 100-41-4 Dermal Non-applicable Non-applicable Non-applicable Non-applicable EC: 202-849-4 Inhalation Non-applicable Non-applicable 15 mg/m<sup>3</sup> Non-applicable PNEC: Identification Hexamethylene diisocyanate, oligomers STP 88 mg/L Fresh water 0,127 mg/L CAS: 28182-81-2 Soi 53183 mg/kg Marine water 0,013 mg/L Intermittent Sediment (Fresh water) EC: 931-274-8 1,27 mg/L 266701 mg/kg Oral Non-applicable Sediment (Marine water) 26670 mg/kg STP 6,58 mg/L Fresh water 0,327 mg/L Xvlene Soil CAS: 1330-20-7 2,31 mg/kg Marine water 0,327 mg/L EC: 215-535-7 Intermittent 0,327 mg/L Sediment (Fresh water) 12,46 mg/kg Oral Non-applicable Sediment (Marine water) 12,46 mg/kg STP 100 mg/L Fresh water 0,635 mg/L 2-methoxy-1-methylethyl acetate CAS: 108-65-6 Soil 0,29 mg/kg Marine water 0,064 mg/L EC: 203-603-9 Intermittent 6,35 mg/L Sediment (Fresh water) 3,29 mg/kg Oral Non-applicable Sediment (Marine water) 0,329 mg/kg STP N-butyl acetate 35,6 mg/L Fresh water 0,18 mg/L Soil CAS: 123-86-4 0,09 mg/kg Marine water 0,018 mg/L EC: 204-658-1 Intermittent 0,36 mg/L Sediment (Fresh water) 0,981 mg/kg Oral Non-applicable Sediment (Marine water) 0,098 mg/kg STP 27,5 mg/L Fresh water 0,6 mg/L 4-methylpentan-2-one Soil 1,3 mg/kg Marine water 0,06 mg/L CAS: 108-10-1 Intermittent 8,27 mg/kg EC: 203-550-1 1,5 mg/L Sediment (Fresh water) Oral Non-applicable Sediment (Marine water) 0,83 mg/kg Ethylbenzene STP 9,6 mg/L Fresh water 0,1 mg/L CAS: 100-41-4 Soil 2,68 mg/kg Marine water 0,01 mg/L EC: 202-849-4 Intermittent 0,1 mg/L Sediment (Fresh water) 13,7 mg/kg Oral 0,02 g/kg Sediment (Marine water) 1,37 mg/kg STP 8,42 mg/L Fresh water Non-applicable Hexamethylene-di-isocyanate CAS: 822-06-0 Soil Non-applicable Marine wate Non-applicable Intermittent EC: 212-485-8 Non-applicable Sediment (Fresh water) Non-applicable Non-applicable Sediment (Marine water) Non-applicable Ora

#### 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours		EN 405:2002+A1:2010	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 Specific protection	on for the hands			



Safety data sheet

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ECTI	ION 8: EXPOSURE	CONTROLS/PERSON	AL PROTECTI	ON (continued)			
	Pictogram	PPE	Labelling	CEN Standard		Remarks	
	Mandatory hand protection	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)		EN ISO 21420:2020	Repla	ace the gloves at any sign of deterioration.	
		nd has therefore to be che			rial can	not be calculated in advance with	
	Pictogram	PPE	Labelling	CEN Standard		Remarks	
	Mandatory face protection	Face shield	CAT II	EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018		daily and disinfect periodically according to anufacturer´s instructions. Use if there is a risk of splashing.	
	E Body protection						
	Pictogram	PPE	Labelling	CEN Standard		Remarks	
	Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	CAT III	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		professional use only. Clean periodically rding 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	Re	place boots at any sign of deterioration.	
	F Additional emerg	ency measures					
	Emergency me	asure St	Standards		ire	e Standards	
	Emergency sh	ISO 3864-1:20	SI Z358-1 11, ISO 3864-4:20	11 Eyewash station	s	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011	
		he community legislation product and its container.	For additional in			nmended to avoid environmental	
	ION 9: PHYSICAL			:			
.1	Information on ba	sic physical and chemi ation see the product data	cal properties	::			
.1	Information on ba	sic physical and chemi	cal properties				
).1	Information on ba	sic physical and chemi ation see the product data	cal properties				
0.1	Information on ba For complete informa Appearance:	sic physical and chemi ation see the product data	<b>cal properties</b> isheet. Liqui				
0.1	Information on ba For complete informa Appearance: Physical state at 20 0	sic physical and chemi ation see the product data	<b>cal properties</b> asheet. Liqui Not a	d			
0.1	Information on ba For complete informa Appearance: Physical state at 20 G Appearance: Colour: Odour:	sic physical and chemi ation see the product data	<b>cal properties</b> isheet. Liqui Not a Colou Not a	d available urless available			
.1	Information on ba For complete informa Appearance: Physical state at 20 G Appearance: Colour: Odour: Odour:	sic physical and chemi ation see the product data	<b>cal properties</b> isheet. Liqui Not a Colou Not a	d available urless			
.1	Information on ba For complete informa Appearance: Physical state at 20 0 Appearance: Colour: Odour: Odour: Odour threshold: Volatility:	asic physical and chemi ation see the product data	<b>cal properties</b> isheet. Not a Colou Not a Non-	d available urless available applicable *			
9.1	Information on ba For complete informa Appearance: Physical state at 20 G Appearance: Colour: Odour: Odour:	sic physical and chemi ation see the product data PC:	<b>cal properties</b> isheet. Liqui Not a Colou Not a	d available urless available applicable * PC			



### HARDENER FOR DTM PRIMER SEALER 1:4 FAST

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)         Vapour pressure at 50 °C:       4902,09 Pa (4,9 kPa)         Evaporation rate at 20 °C:       Non-applicable *         Product description:       1 kg/m³         Density at 20 °C:       1 kg/m³         Relative density at 20 °C:       0,978         Dynamic viscosity at 20 °C:       3000 cP         Kinematic viscosity at 20 °C:       3068,39 mm²/s         Kinematic viscosity at 40 °C:       Non-applicable *         PH:       Non-applicable *         Partition coefficient n-octanol/water 20 °C:       Non-applicable *         Partition coefficient n-octanol/water 20 °C:       Non-applicable *	
Evaporation rate at 20 °C:Non-applicable *Product description:I kg/m³Density at 20 °C:1 kg/m³Relative density at 20 °C:0,978Dynamic viscosity at 20 °C:3000 cPKinematic viscosity at 20 °C:3068,39 mm²/sKinematic viscosity at 40 °C:Non-applicable *Concentration:Non-applicable *pH:Non-applicable *Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *	
Evaporation rate at 20 °C:Non-applicable *Product description:I kg/m³Density at 20 °C:1 kg/m³Relative density at 20 °C:0,978Dynamic viscosity at 20 °C:3000 cPKinematic viscosity at 20 °C:3068,39 mm²/sKinematic viscosity at 40 °C:Non-applicable *Concentration:Non-applicable *pH:Non-applicable *Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *	
Product description:Density at 20 °C:1 kg/m³Relative density at 20 °C:0,978Dynamic viscosity at 20 °C:3000 cPKinematic viscosity at 20 °C:3068,39 mm²/sKinematic viscosity at 40 °C:Non-applicable *Concentration:Non-applicable *pH:Non-applicable *Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *	
Relative density at 20 °C:0,978Dynamic viscosity at 20 °C:3000 cPKinematic viscosity at 20 °C:3068,39 mm²/sKinematic viscosity at 40 °C:Non-applicable *Concentration:Non-applicable *pH:Non-applicable *Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *	
Dynamic viscosity at 20 °C:3000 cPKinematic viscosity at 20 °C:3068,39 mm²/sKinematic viscosity at 40 °C:Non-applicable *Concentration:Non-applicable *pH:Non-applicable *Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *	
Kinematic viscosity at 20 °C:3068,39 mm²/sKinematic viscosity at 40 °C:Non-applicable *Concentration:Non-applicable *pH:Non-applicable *Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *	
Kinematic viscosity at 40 °C:Non-applicable *Concentration:Non-applicable *pH:Non-applicable *Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *	
Concentration:Non-applicable *pH:Non-applicable *Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *	
pH:Non-applicable *Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *	
Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *	
Partition coefficient n-octanol/water 20 °C: Non-applicable *	
Solubility in water at 20 °C: Non-applicable *	
Solubility properties: Non-applicable *	
Decomposition temperature: Non-applicable *	
Melting point/freezing point: Non-applicable *	
Flammability:	
Flash Point: 31 °C	
Flammability (solid, gas): Non-applicable *	
Autoignition temperature: 180 °C	
Lower flammability limit: Not available	
Upper flammability limit: Not available	
Particle characteristics:	
Median equivalent diameter: Non-applicable	
9.2 Other information:	
Information with regard to physical hazard classes:	
Explosive properties: Non-applicable *	
Oxidising properties: Non-applicable *	
Corrosive to metals: Non-applicable *	
Heat of combustion: Non-applicable *	
Aerosols-total percentage (by mass) of flammable Non-applicable * components:	
Other safety characteristics:	
Surface tension at 20 °C: Non-applicable *	
Refraction index: Non-applicable *	
*Not relevant due to the nature of the product, not providing information property of its hazards.	

SECTION	$10^{\circ}$ STABILITY	AND REACTIVITY

10.1 Reactivity:

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

### 10.2 Chemical stability:

Chemically stable under the 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:



### HARDENER FOR DTM PRIMER SEALER 1:4 FAST

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-		Y AND REACTIVITY (cor							
JLCT									
		ing and storage at room temp							
	Shock and friction Not applicable	n Contact with air Not applicable	Increase in temperature Risk of combustion	Sunlight Avoid direct impact	Humidity Not applicable				
10.5	Incompatible mat	•			Not applicable				
1010	Acids	Water	Oxidising materials	Combustible materials	Others				
	Avoid strong acids		Avoid direct impact	Not applicable	Avoid alkalis or strong bases				
10.6	Hazardous decom	position products:							
			gy for spontaneous decompos	ition. Form explosive per	oxides when distilled,				
	evaporated or other	wise concentrated.							
CECT		OGICAL INFORMATION							
11.1	Information on ha	azard classes as defined in	n Regulation (EC) No 1272	2008:					
	The experimental inf	formation related to the toxic	cological properties of the proc	duct itself is not available	ć				
	Dangerous health	implications:							
			or at concentrations higher th	an the recommended oc	cupational exposure limits,				
	adverse effects on health may result, depending on the means of exposure: A- Ingestion (acute effect):								
	- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as 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. B- Inhalation (acute effect):								
	<ul> <li>Acute toxicity : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.</li> <li>Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper</li> </ul>								
	respiratory passa	-	ect).						
	C- Contact with the skin and the eyes (acute effect):								
	<ul> <li>Contact with the skin: Produces skin inflammation.</li> <li>Contact with the eyes: Produces eye damage after contact.</li> </ul>								
	D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):								
	- Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see								
	section 2. IARC: Xylene (	(3); Ethylbenzene (2B); 4-me	thylpentan-2-one (2B)						
		Based on available data, the is effect. For more information	classification criteria are not	met, as it does not conta	in substances classified as				
			lata, the classification criteria	are not met, as it does n	ot contain substances				
	classified as haza E- Sensitizing effect	ardous for this effect. For mo	re information see section 3.						
	5								
		sensitising effects. For more i	classification criteria are not m information see section 3.	iet. However, it contains	substances classified as				
			result in episodes of allergic o	ontact dermatitis.					
		rgan toxicity (STOT) - single							
		1 ,1 0 ,	ch is normally reversible and li	imited to the upper respi	ratory passages.				
	G- Specific target or	rgan toxicity (STOT)-repeated	d exposure:						
	nervous system o consciousness. - Skin: Based o	causing headache, dizziness, on available data, the classific	ated exposure: Exposure in hig vertigo, nausea, vomiting, co ation criteria are not met. Ho	nfusion, and in serious convertion of the serious of the serious of the serious subsection of th	ases, loss of				
	classified as dang H- Aspiration hazard		osure. For more information se	ee section 3.					



### HARDENER FOR DTM PRIMER SEALER 1:4 FAST

			er, it uoes contair	substances classified a	s hazardo
Non-applicable					
Specific toxicology informat	ion on the substance	5:			
	Identification	-	A	cute toxicity	Genu
2-methoxy-1-methylethyl acetate			LD50 oral	8532 mg/kg	Rat
CAS: 108-65-6			LD50 dermal	5100 mg/kg	Rat
EC: 203-603-9			LC50 inhalation	30 mg/L (4 h)	Rat
Xylene			LD50 oral	2100 mg/kg	Rat
CAS: 1330-20-7			LD50 dermal	1100 mg/kg	Rat
EC: 215-535-7			LC50 inhalation	11 mg/L (ATEi)	
Hexamethylene diisocyanate, oligome	rs		LD50 oral	5100 mg/kg	Rat
CAS: 28182-81-2			LD50 dermal	>2000 mg/kg	
EC: 931-274-8			LC50 inhalation	11 mg/L (ATEi)	
Ethylbenzene			LD50 oral	3500 mg/kg	Rat
CAS: 100-41-4			LD50 dermal	15354 mg/kg	Rabb
EC: 202-849-4			LC50 inhalation	17,2 mg/L (4 h)	Rat
4-methylpentan-2-one			LD50 oral	>2000 mg/kg	
CAS: 108-10-1			LD50 dermal	>2000 mg/kg	
EC: 203-550-1			LC50 inhalation	11 mg/L (4 h)	Rat
N-butyl acetate			LD50 oral	12789 mg/kg	Rat
CAS: 123-86-4			LD50 dermal	14112 mg/kg	Rabb
EC: 204-658-1			LC50 inhalation	23,4 mg/L (4 h)	Rat
Hexamethylene-di-isocyanate			LD50 oral	>2000 mg/kg	
CAS: 822-06-0			LD50 dermal	>2000 mg/kg	
			LC50 inhalation	3 mg/L (1 h) (ATEi)	Rat

#### Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	>2000 mg/kg (Calculation method)	Non-applicable
Dermal	4943,82 mg/kg (Calculation method)	0 %
Inhalation	14,46 mg/L (4 h) (Calculation method)	0 %

### **11.2** Information on other hazards:

#### Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

#### **Other information**

Non-applicable

### SECTION 12: ECOLOGICAL INFORMATION

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

#### 12.1 Toxicity:

#### Acute toxicity:

Identification		Concentration	Species	Genus
Hexamethylene diisocyanate, oligomers	LC50	Non-applicable		
CAS: 28182-81-2	EC50	Non-applicable		
EC: 931-274-8	EC50	1000 mg/L (72 h)	Scenedesmus subspicatus	Algae
Xylene	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 1330-20-7	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: 215-535-7	EC50	>10 - 100 mg/L (72 h)		Algae



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### SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Concentration	Species	Genus
2-methoxy-1-methylethyl acetate	LC50	161 mg/L (96 h)	Pimephales promelas	Fish
CAS: 108-65-6	EC50	481 mg/L (48 h)	Daphnia sp.	Crustacean
EC: 203-603-9	EC50	Non-applicable		
N-butyl acetate	LC50	Non-applicable		
CAS: 123-86-4	EC50	Non-applicable		
EC: 204-658-1	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae
4-methylpentan-2-one	LC50	900 mg/L (48 h)	Leuciscus idus	Fish
CAS: 108-10-1	EC50	862 mg/L (24 h)	Daphnia magna	Crustacear
EC: 203-550-1	EC50	980 mg/L (48 h)	Scenedesmus subspicatus	Algae
Ethylbenzene	LC50	42,3 mg/L (96 h)	Pimephales promelas	Fish
CAS: 100-41-4	EC50	75 mg/L (48 h)	Daphnia magna	Crustacear
EC: 202-849-4	EC50	63 mg/L (3 h)	Chlorella vulgaris	Algae

#### Chronic toxicity:

Identification		Concentration	Species	Genus
Xylene	NOEC	1,3 mg/L	Oncorhynchus mykiss	Fish
CAS: 1330-20-7 EC: 215-535-7	NOEC	1,17 mg/L	Ceriodaphnia dubia	Crustacean
2-methoxy-1-methylethyl acetate	NOEC	47,5 mg/L	Oryzias latipes	Fish
CAS: 108-65-6 EC: 203-603-9	NOEC	100 mg/L	Daphnia magna	Crustacean
N-butyl acetate	NOEC	Non-applicable		
CAS: 123-86-4 EC: 204-658-1	NOEC	23,2 mg/L	Daphnia magna	Crustacean
4-methylpentan-2-one	NOEC	Non-applicable		
CAS: 108-10-1 EC: 203-550-1	NOEC	78 mg/L	Daphnia magna	Crustacean
Ethylbenzene	NOEC	Non-applicable		
CAS: 100-41-4 EC: 202-849-4	NOEC	0,96 mg/L	Ceriodaphnia dubia	Crustacean

### 12.2 Persistence and degradability:

#### Substance-specific information:

Identification	De	gradability	Biod	egradability
Xylene	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 1330-20-7	COD	Non-applicable	Period	28 days
EC: 215-535-7	BOD5/COD	Non-applicable	% Biodegradable	88 %
2-methoxy-1-methylethyl acetate	BOD5	Non-applicable	Concentration	785 mg/L
CAS: 108-65-6	COD	Non-applicable	Period	8 days
EC: 203-603-9	BOD5/COD	Non-applicable	% Biodegradable	100 %
N-butyl acetate	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 123-86-4	COD	Non-applicable	Period	5 days
EC: 204-658-1	BOD5/COD	Non-applicable	% Biodegradable	84 %
4-methylpentan-2-one	BOD5	2,06 g O2/g	Concentration	100 mg/L
CAS: 108-10-1	COD	2,16 g O2/g	Period	14 days
EC: 203-550-1	BOD5/COD	0,95	% Biodegradable	84 %
Ethylbenzene	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 100-41-4	COD	Non-applicable	Period	14 days
EC: 202-849-4	BOD5/COD	Non-applicable	% Biodegradable	90 %
Hexamethylene-di-isocyanate	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 822-06-0	COD	Non-applicable	Period	28 days
EC: 212-485-8	BOD5/COD	Non-applicable	% Biodegradable	28 %

### 12.3 Bioaccumulative potential:

### Substance-specific information:

Identification	Bioaccumulation potential		
Xylene	BCF	9	
CAS: 1330-20-7	Pow Log	2.77	
EC: 215-535-7	Potential	Low	



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### SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioa	Bioaccumulation potential	
2-methoxy-1-methylethyl acetate	BCF	1	
CAS: 108-65-6	Pow Log	0.43	
EC: 203-603-9	Potential	Low	
N-butyl acetate	BCF	4	
CAS: 123-86-4	Pow Log	1.78	
EC: 204-658-1	Potential	Low	
4-methylpentan-2-one	BCF	2	
CAS: 108-10-1	Pow Log	1.31	
EC: 203-550-1	Potential	Low	
Ethylbenzene	BCF	1	
CAS: 100-41-4	Pow Log	3.15	
EC: 202-849-4	Potential	Low	

### 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Xylene	Кос	202	Henry	524,86 Pa·m <sup>3</sup> /mol
CAS: 1330-20-7	Conclusion	Moderate	Dry soil	Yes
EC: 215-535-7	Surface tension	Non-applicable	Moist soil	Yes
N-butyl acetate	Кос	Non-applicable	Henry	Non-applicable
CAS: 123-86-4	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 204-658-1	Surface tension	2,478E-2 N/m (25 °C)	Moist soil	Non-applicable
4-methylpentan-2-one	Кос	Non-applicable	Henry	Non-applicable
CAS: 108-10-1	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 203-550-1	Surface tension	2,35E-2 N/m (25 °C)	Moist soil	Non-applicable
Ethylbenzene	Кос	520	Henry	798,44 Pa·m³/mol
CAS: 100-41-4	Conclusion	Moderate	Dry soil	Yes
EC: 202-849-4	Surface tension	2,859E-2 N/m (25 °C)	Moist soil	Yes

#### 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

### 12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to meet the criteria.

#### **12.7** Other adverse effects:

Not described

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	waste paint and varnish containing organic solvents or other hazardous substances packaging containing residues of or contaminated by hazardous substances	Dangerous

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

HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP7 Carcinogenic, 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:**

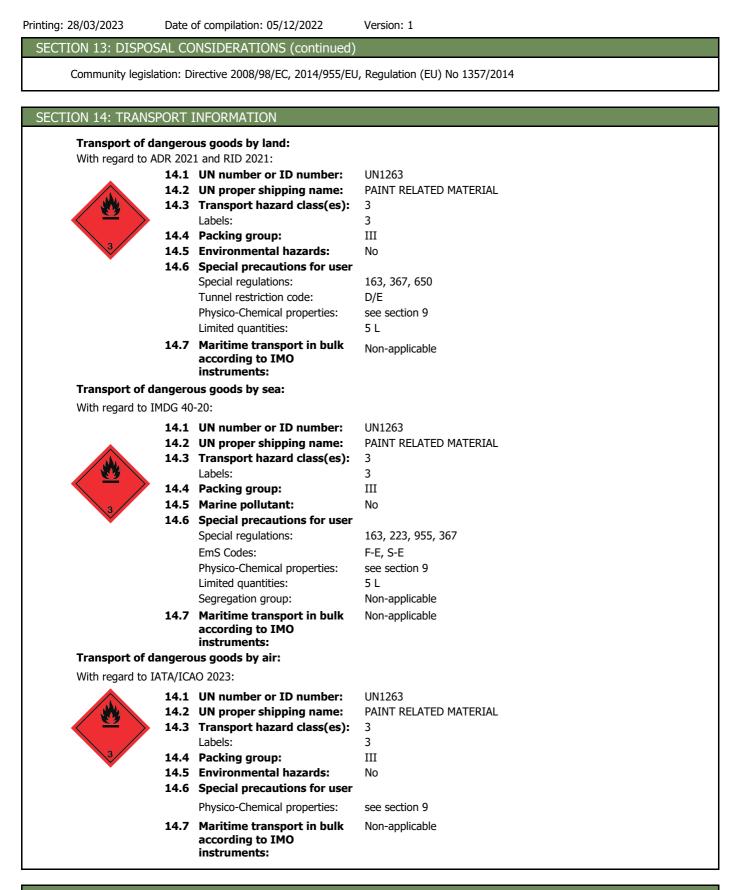
In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated



Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

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SECTION 15: REGULATORY INFORMATION



### HARDENER FOR DTM PRIMER SEALER 1:4 FAST

	P5c	FLAMMABLE LIQUIDS	5000 50000				
	Section	Descriptio	on Lower-tier Upper-tier requirements requirements				
Seveso III:							
REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable							
	Article 95, REGULATION (EU) No 528/2012: Non-applicable						
	Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable						
	Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable						
	Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable						
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:							
SECTION 15: REGULATORY INFORMATION (continued)							
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etc ....):



### HARDENER FOR DTM PRIMER SEALER 1:4 FAST

ting: 28/0	3/2023Date of compilation: 05/12/2022Version: 1				
SECTION	15: REGULATORY INFORMATION (continued)				
	I not be used in:				
	namental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps				
	ashtrays, cks and jokes,				
	ames for one or more participants, or any article intended to be used as such, even with ornamental aspects.				
	tains more than 0.1 % of Hexamethylene-di-isocyanate, Hexamethylene diisocyanate, oligomers by weight. 1. Shall not be				
	d as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after				
	August 2023, unless:				
	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 industr					
					professional use(s) after 24 February 2022, unless:
					the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the supplier ensures the recipient of the substance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of
	graph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label				
	rmation: "As from 24 August 2023 adequate training is required before industrial or professional use".				
	or the purpose of this entry "industrial and professional user(s)" means any worker or self-employed worker handling				
	ocyanates on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) or				
supe	ervising these tasks.				
	he training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation				
	osure to diisocyanates at the workplace without prejudice to any national occupational exposure limit value or other				
	ropriate risk management measures at national level. Such training shall be conducted by an expert on occupational safety				
	health with competence acquired by relevant vocational training. That training shall cover as a minimum:				
	the training elements in point (a) of paragraph 5 for all industrial and professional use(s). The training elements in points (a) and (b) of paragraph 5 for the following uses:				
	andling open mixtures at ambient temperature (including foam tunnels)				
	praying in a ventilated booth				
	pplication by roller				
	pplication by brush				
	pplication by dipping and pouring				
	nechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore				
	leaning and waste				
	ny other uses with similar exposure through the dermal and/or inhalation route				
	he training elements in points (a), (b) and (c) of paragraph 5 for the following uses: andling incompletely cured articles (e.g. freshly cured, still warm)				
	bundry applications				
	naintenance and repair that needs access to equipment				
	pen handling of warm or hot formulations (> 45 °C)				
— s	praying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high				
ener	rgy (e.g. foams, elastomers)				
	nd any other uses with similar exposure through the dermal and/or				
	lation route.				
	raining elements:				
	general training, including on-line training, on: hemistry of diisocyanates				
	oxicity hazards (including acute toxicity)				
	xposure to diisocyanates				
	ccupational exposure limit values				
	ow sensitisation can develop				
	dour as indication of hazard				
	nportance of volatility for risk				
	iscosity, temperature, and molecular weight of diisocyanates				
•	ersonal hygiene				
	ersonal protective equipment needed, including practical instructions for its correct use and its limitations				
	sk of dermal contact and inhalation exposure sk in relation to application process used				
	kin and inhalation protection scheme				
	entilation				
	leaning, leakages, maintenance				
	iscarding empty packaging				
— p	rotection of bystanders				
	lentification of critical handling stages				
— si	pecific national code systems (if applicable)				



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SECT	ION 15: REGULATORY INFORMATION (continued)
	<ul> <li>behaviour-based safety</li> <li>certification or documented proof that training has been successfully completed</li> <li>(b) intermediate level training, including on-line training, on:</li> <li>additional behaviour-based aspects</li> <li>maintenance</li> <li>management of change</li> <li>evaluation to application process used</li> <li>certification or documented proof that training has been successfully completed</li> <li>(c) advanced training, including on-line training, on:</li> <li>any additional certification needed for the specific uses covered</li> <li>spraying outside a spraying booth</li> <li>open handling of hot or warm formulations (&gt; 45 °C)</li> <li>certification or documented proof that training has been successfully completed</li> <li>6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate.</li> <li>Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture</li> <li>(s) as long as the minimum requirements set out in paragraphs 4 and 5 are met.</li> <li>7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and course 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.</li> <li>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.</li> <li>9. Member States shall include in their reports pursuant to Article 117(1) the following information:</li> <li>(a) any established training requirements and other risk management measures related to the industrial and professional uses of discovanates foreseen in national law</li> <li>(b) the number of cases of reporte</li></ul>
	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.
SECT	ION 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

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.: Non-applicable

#### Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation.

H335: May cause respiratory irritation.

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

H317: May cause an allergic skin reaction.

H351: Suspected of causing cancer.

H332: Harmful if inhaled.

H226: Flammable liquid and vapour.

H319: Causes serious eye irritation.

Texts of the legislative phrases mentioned in section 3:



### HARDENER FOR DTM PRIMER SEALER 1:4 FAST

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SECTION 16: OTHER INFOR	MATION (continued)					
The phrases indicated do r individual components whi <b>CLP Regulation (EC) No</b> Acute Tox. 3: H331 - Toxic	ch appear in section 3 <b>1272/2008:</b>	they are present merely for informative purposes and refer to the				
Acute Tox. 4: H312+H332	- Harmful in contact with skir	n or if inhaled.				
Acute Tox. 4: H332 - Harm		ng lasting effects				
Asp. Tox. 1: H304 - May b	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						
Eye Irrit. 2: H319 - Causes Flam, Lig. 2: H225 - Highly	s serious eye irritation. 7 flammable liquid and vapoui	r				
Flam. Liq. 3: H226 - Flam	nable liquid and vapour.					
		ptoms or breathing difficulties if inhaled.				
Skin Irrit. 2: H315 - Cause Skin Sens 1: H317 - May	s skin irritation. cause an allergic skin reactior					
		 gh prolonged or repeated exposure (Oral).				
		gh prolonged or repeated exposure.				
STOT SE 3: H335 - May ca STOT SE 3: H336 - May ca						
-	STOT SE 3: H336 - May cause drowsiness or dizziness. Classification procedure:					
Skin Irrit. 2: Calculation me						
STOT SE 3: Calculation me						
STOT RE 2: Calculation me Skin Sens. 1: Calculation n						
Carc. 2: Calculation metho						
Acute Tox. 4: Calculation n						
Flam. Liq. 3: Calculation m Eye Irrit. 2: Calculation me						
Advice related to trainin						
Training is recommended in	-	isks for staff using this product and to facilitate their comprehension and bel on the product.				
Principal bibliographica	I sources:					
http://echa.europa.eu http://eur-lex.europa.eu						
Abbreviations and acro	nymei					
	-	carriage of dangerous goods by road				
IMDG: International mariti						
IATA: International Air Tran						
ICAO: International Civil A COD: Chemical Oxygen De						
BOD5: 5day biochemical or						
BCF: Bioconcentration fact						
LD50: Lethal Dose 50 LC50: Lethal Concentratior	50					
EC50: Effective concentration						
LogPOW: Octanolwater par						
Koc: Partition coefficient of	f organic carbon					
UFI: unique formula identi IARC: International Agency						

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