HARDENER for V2018 ANTICORROSIVE RAPID DRYING HS 1:4 HARDENER for V2018 ANTICORROSIVE RAPID DRYING HS 1:5

-	04/02/2020	Date of compilation: 02/08/2017	Revised: 04/02/2020	Version: 2 (Replaced 1)
SECT	ION 1: IDENTI	FICATION OF THE SUBSTANCE/M	IXTURE AND OF THE CO	OMPANY/UNDERTAKING
l.1	Product identi	fier: HARDENER for V2018 ANTICORRC HARDENER for V2018 ANTICORRC		
1.2	Relevant ident	ified uses of the substance or mixtu	ire and uses advised agai	inst:
	Relevant uses: C	Car repair; base for coatings. For professi	onal user only.	
	Uses advised aga	ainst: All uses not specified in this section	n or in section 7.3	
1.3	Details of the s	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.co www.troton.pl	om.pl		
1.4	•	ephone number: (8am-4pm)+48 094	i 35 123 94; 112	
SECT	Ton 2: Hazari	DS IDENTIFICATION **		
2.1	Classification of	of the substance or mixture:		
	CLP Regulation	n (EC) No 1272/2008:		
	Classification of	this product has been carried out in acco	ordance with CLP Regulation	(EC) No 1272/2008.
		cute inhalation toxicity, Category 4, H332		
		3: Hazardous to the aquatic environmen irritation, Category 2, H319	t, long-term nazard, Catego	ry 3, H412
	Flam. Liq. 3: Fla	mmable liquids, Category 3, H226		
		n irritation, Category 2, H315 ensitisation, skin, Category 1, H317		
		cific target organ toxicity if swallowed, re	epeated exposure, Category	2, H373
		piratory tract toxicity, single exposure, Ca	ategory 3, H335	
2.2	Label elements			
	Warning	n (EC) No 1272/2008:		
	Hazard statem	nents:		
		332 - Harmful if inhaled		
	•	3: H412 - Harmful to aquatic life with log9 - Causes serious eye irritation	ng lasting effects	
	Flam. Liq. 3: H2	26 - Flammable liquid and vapour		
		15 - Causes skin irritation		
		317 - May cause an allergic skin reaction '3 - May cause damage to organs throug	h prolonged or repeated exc	oosure (Oral)
		5 - May cause respiratory irritation		
	Precautionary	statements:		
		y from heat, hot surfaces, sparks, open t		urces. No smoking
		tective gloves/protective clothing/eye pro ON SKIN: Wash with plenty of water	dection/race protection	
	P304+P340: IF	INHALED: Remove person to fresh air ar		
	P305+P351+P3 do. Continue rin		ter for several minutes. Ren	nove contact lenses, if present and easy to
		ore in a well-ventilated place. Keep conta	iner tightly closed	
	P501: Dispose o	f contents/container in accordance with		aste or packaging and packaging waste
	respectively Supplementar	v information:		
	Supplementar	y miormation:		



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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

EUH204: Contains isocyanates. May produce an allergic reaction

Substances that contribute to the classification

Xylene; Hexamethylene diisocyanate, oligomers; Hydrocarbons, C9, aromatics (EC 200-753-7 <0,1%); Ethylbenzene

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture composed of chemical products

Components:

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

	Identification		Chemical name/Classification	Concentration	
CAS: EC:	1330-20-7 215-535-7	Xylene ⁽¹⁾ Self-classified			
Index:	215-535-7 601-022-00-9 01-2119488216-32- XXXX	Regulation 1272/2008	Acute Tox. 4: H312+H332; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger	25 - <50 %	
CAS:	28182-81-2	Hexamethylene diiso	cyanate, oligomers ⁽¹⁾ Self-classified		
EC: Index: REACH:	931-274-8 Non-applicable 01-2119485796-17- XXXX	Regulation 1272/2008	Acute Tox. 4: H332; Skin Sens. 1: H317; STOT SE 3: H335 - Warning	25 - <50 %	
CAS:	108-65-6	2-methoxy-1-methyl	ethyl acetate ⁽²⁾ ATP ATP01		
	203-603-9 607-195-00-7 01-2119475791-29- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226 - Warning	10 - <25 %	
CAS:	64742-95-6	Hydrocarbons, C9, ar	romatics (EC 200-753-7 <0,1%) ⁽¹⁾ Self-classified		
EC: Index: REACH:	918-668-5 Non-applicable 01-2119455851-35- XXXX	Regulation 1272/2008	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H335; STOT SE 3: H336; EUH066 - Danger	5 - <10 %	
CAS:	100-41-4	Ethylbenzene ⁽¹⁾	ATP ATP06		
EC: 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 %	
CAS:	822-06-0	Hexamethylene-di-is	ocyanate ⁽¹⁾ ATP CLP00		
	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; Skin Sens. 1: H317; STOT SE 3: H335 - Danger	<1 %	

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

⁽²⁾ Substance with a Union workplace exposure limit

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

** Changes with regards to the previous version

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

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

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SECTION 4: FIRST AID MEASURES (continued)

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 effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

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

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

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

Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

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

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

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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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

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

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

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

C.- Technical recommendations to prevent ergonomic and toxicological risks

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

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.:	15 °C
Maximum Temp.:	25 ºC
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

Identification	Environmental limits	Environmental limits			
Xylene	IOELV (8h) 50 ppm 221 mg/m ³				
CAS: 1330-20-7 EC: 215-535-7	IOELV (STEL) 100 ppm 442 mg/m ³				
2-methoxy-1-methylethyl acetate	IOELV (8h) 50 ppm 275 mg/m ³				
CAS: 108-65-6 EC: 203-603-9	IOELV (STEL) 100 ppm 550 mg/m ³				
Ethylbenzene	IOELV (8h) 100 ppm 442 mg/m ³				
CAS: 100-41-4 EC: 202-849-4	IOELV (STEL) 200 ppm 884 mg/m ³				

DNEL (Workers):

		Short e	xposure	Long exposure	
Identification		Systemic	Local	Systemic	Local
Xylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	289 mg/m ³	289 mg/m ³	77 mg/m³	Non-applicable
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 ³	Non-applicable	0,5 mg/m ³

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		Short	exposure	Long	exposure
Identification		Systemic	Local	Systemic	Local
2-methoxy-1-methylethyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 108-65-6	Dermal	Non-applicable	Non-applicable	153,5 mg/kg	Non-applicable
EC: 203-603-9	Inhalation	Non-applicable	Non-applicable	275 mg/m ³	Non-applicable
Hydrocarbons, C9, aromatics (EC 200-753-7 <0,1%)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 64742-95-6	Dermal	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
EC: 918-668-5	Inhalation	Non-applicable	Non-applicable	150 mg/m ³	Non-applicable
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 ³	77 mg/m ³	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	0,07 mg/m ³	0,07 mg/m ³	0,035 mg/m ³	0,035 mg/m ³

DNEL (General population):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Xylene	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	108 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	Non-applicable	Non-applicable	14,8 mg/m ³	Non-applicable
2-methoxy-1-methylethyl acetate	Oral	Non-applicable	Non-applicable	1,67 mg/kg	Non-applicable
CAS: 108-65-6	Dermal	Non-applicable	Non-applicable	54,8 mg/kg	Non-applicable
EC: 203-603-9	Inhalation	Non-applicable	Non-applicable	33 mg/m ³	Non-applicable
Hydrocarbons, C9, aromatics (EC 200-753-7 <0,1%)	Oral	Non-applicable	Non-applicable	11 mg/kg	Non-applicable
CAS: 64742-95-6	Dermal	Non-applicable	Non-applicable	11 mg/kg	Non-applicable
EC: 918-668-5	Inhalation	Non-applicable	Non-applicable	32 mg/m ³	Non-applicable
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 ³	Non-applicable

PNEC:

Identification				
Xylene	STP	6,58 mg/L	Fresh water	0,327 mg/L
CAS: 1330-20-7	Soil	2,31 mg/kg	Marine water	0,327 mg/L
EC: 215-535-7	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg
Hexamethylene diisocyanate, oligomers	STP	38,3 mg/L	Fresh water	0,127 mg/L
CAS: 28182-81-2	Soil	53182 mg/kg	Marine water	0,0127 mg/L
EC: 931-274-8	Intermittent	1,27 mg/L	Sediment (Fresh water)	266700 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	26670 mg/kg
2-methoxy-1-methylethyl acetate	STP	100 mg/L	Fresh water	0,635 mg/L
CAS: 108-65-6	Soil	0,29 mg/kg	Marine water	0,0635 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
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	20 g/kg	Sediment (Marine water)	1,37 mg/kg
Hexamethylene-di-isocyanate	STP	8,42 mg/L	Fresh water	0,0774 mg/L
CAS: 822-06-0	Soil	0,0026 mg/kg	Marine water	0,00774 mg/L
EC: 212-485-8	Intermittent	0,774 mg/L	Sediment (Fresh water)	0,01334 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,001344 mg/kg

8.2 **Exposure controls:**

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CTION 8: EXPOSU	RE CONTR	OLS/PERSON/	AL PROTECT	ION (continued)		
marking>> in cleaning, maii	tive measure accordance ntenance, cla	it is recommend with Directive 89 ss of protection,	ded to use basi 9/686/EC. For r	ic Personal Protective Ec more information on Per	sonal Pro	, with the corresponding < <ce otective Equipment (storage, use, the manufacturer. For more</ce
 cleaning, maintenance, class of protection,) consult the information leaflet provided by the manufacturer. For information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prev as it is not known whether the company has additional measures at its disposal. B Respiratory protection 						
B Respiratory p	rotection					
Pictogram		PPE	Labelling	CEN Standard		Remarks
Mandatory respiratory trac	V	ask for gases and apours (A)		EN 405:2001+A1:2009	c	place when there is a taste or smell of the ontaminant inside the face mask. If the contaminant comes with warnings it is commended to use isolation equipment.
C Specific prote	ction for the	hands				
Pictogram		PPE	Labelling	CEN Standard		Remarks
Mandatory han protection	protecti Breakthro	posable chemical ve gloves (NBR), ugh Time 480 min, mess 0.4 mm		EN ISO 374-1:2016 EN 16523-1:2015 EN 420:2003+A1:2009	manuf the p	The Breakthrough Time indicated by the acturer must exceed the period during wh roduct is being used. Do not use protective ms after the product has come into contact with skin.
						in not be predicted in advance with
D Ocular and fa			cked prior to th	ne application"	1	Remarks
D Ocular and fa	cial protectio Panoram splas	n				Remarks daily and disinfect periodically according hanufacturer 's instructions. Use if there is risk of splashing.
D Ocular and far	e Panoram	n PPE ic glasses against		CEN Standard EN 166:2001		daily and disinfect periodically according nanufacturer 's instructions. Use if there is
D Ocular and far Pictogram Mandatory fac protection	e Panoram	n PPE ic glasses against		CEN Standard EN 166:2001		daily and disinfect periodically according nanufacturer 's instructions. Use if there is
D Ocular and fa Pictogram Mandatory fac protection E Body protection	e Panoram splas	n PPE ic glasses against h/projections.	Labelling CAT II	CEN Standard EN 166:2001 EN ISO 4007:2018	the m	daily and disinfect periodically according nanufacturer 's instructions. Use if there is risk of splashing.
D Ocular and fa Pictogram Mandatory fac protection E Body protection Pictogram Mandatory foo Mandatory foo	e Panoram splas e Safet protection risk, with resist protection risk, s, w	n PPE ic glasses against h/projections. PPE y footwear for n against chemical antistatic and heat	Labelling CAT II Labelling	CEN Standard EN 166:2001 EN ISO 4007:2018 CEN Standard EN ISO 13287:2012 EN ISO 20345:2011	the m	daily and disinfect periodically according nanufacturer 's instructions. Use if there is risk of splashing. Remarks
D Ocular and fa Pictogram Mandatory fac protection E Body protection Pictogram Mandatory foc protection Mandatory foc protection	e Panoram splas e Safet protection risk, with resist protection risks, w firepr	n PPE ic glasses against h/projections. PPE y footwear for n against chemical antistatic and heat ant properties able clothing for n against chemical ith antistatic and oof properties	Labelling CAT II Labelling CAT III	CEN Standard EN 166:2001 EN ISO 4007:2018 CEN Standard EN ISO 13287:2012 EN ISO 20345:2011 EN 13832-1:2019 EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013	the m	daily and disinfect periodically according nanufacturer 's instructions. Use if there is risk of splashing. Remarks eplace boots at any sign of deterioration.
D Ocular and far Pictogram Mandatory fac protection E Body protection Pictogram Mandatory foc protection Mandatory foc protection	cial protectio Panoram splas e DN Safet protection risk, with resist Dispos- protection risks, w firepr ergency mea	n PPE ic glasses against h/projections. PPE y footwear for n against chemical antistatic and heat ant properties able clothing for n against chemical ith antistatic and oof properties SUIPES	Labelling CAT II Labelling CAT III	CEN Standard EN 166:2001 EN ISO 4007:2018 CEN Standard EN ISO 13287:2012 EN ISO 20345:2011 EN 13832-1:2019 EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013	the m	daily and disinfect periodically according nanufacturer 's instructions. Use if there is risk of splashing. Remarks eplace boots at any sign of deterioration.

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:

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EUT				
	V.O.C. (Supply):	64,28 % weig		
	V.O.C. density at 20 °C:	615,73 kg/m ³	(615,/3 g/L)	
	Average carbon number:	7,64		
	Average molecular weight:	114,61 g/mol		
ECT	TON 9: PHYSICAL AND CHEMICA	AL PROPERTIES		
1	Information on basic physical an	d chemical prop	perties:	
	For complete information see the pro	duct datasheet.		
	Appearance:			
	Physical state at 20 °C:		Liquid	
	Appearance:		Viscous	
	Colour:		Colourless	
	Odour:		Not available	
	Odour threshold:		Non-applicable *	
	Volatility:			
	Boiling point at atmospheric pressure	:	143 °C	
	Vapour pressure at 20 °C:		603 Pa	
	Vapour pressure at 50 °C:		3392,36 Pa (3,39 kPa)	
	Evaporation rate at 20 °C:		Non-applicable *	
	Product description:			
	Density at 20 °C:		936,9 - 978,9 kg/m³	
	Relative density at 20 °C:		Non-applicable *	
	Dynamic viscosity at 20 °C:		3000 cP	
	Kinematic viscosity at 20 °C:		3111,28 cSt	
	Kinematic viscosity at 40 °C:		>20,5 cSt	
	Concentration:		Non-applicable *	
	pH:		Non-applicable *	
	Vapour density at 20 °C:		Non-applicable *	
	Partition coefficient n-octanol/water 2	20 °C:	Non-applicable *	
	Solubility in water at 20 °C:		Non-applicable *	
	Solubility properties:		Non-applicable *	
	Decomposition temperature:		Non-applicable *	
	Melting point/freezing point:		Non-applicable *	
	Explosive properties:		Non-applicable *	
	Oxidising properties:		Non-applicable *	
	Flammability:		- The second	
	Flash Point:		31 °C	
	Flammability (solid, gas):		Non-applicable *	
	Autoignition temperature:		315 °C	
	Lower flammability limit:		Not available	
	Upper flammability limit:		Not available	
	Explosive:			
	Lower explosive limit:		Non-applicable *	
	*Not relevant due to the nature of the produc			



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SECT	TON 9: PHYSICA	L AND CHEMICAL PROPERTIES	(continued)	
	Upper explosive li	mit:	Non-applicable *	
9.2	Other information	on:		
	Surface tension at	: 20 °C:	Non-applicable *	
	Refraction index:		Non-applicable *	
	*Not relevant due to t	he nature of the product, not providing inform	nation property of its hazards.	

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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

10.2 Chemical stability:

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

10.3 Possibility of hazardous reactions:

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

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable
Incompatible materials	:			

10.5

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION **

11.1 Information on toxicological effects:

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

Dangerous health implications:

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

A- Ingestion (acute effect):

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

** Changes with regards to the previous version



HARDENER for V2018 ANTICORROSIVE RAPID DRYING HS 1:4 HARDENER for V2018 ANTICORROSIVE RAPID DRYING HS 1:5

ng: 04	4/02/2020	Date of compilation: 02/08/2017	Revised: 04/02	2/2020 V	ersion: 2 (Replaced 1)	
CTIC	ON 11: TOXICO	LOGICAL INFORMATION **	(continued)			
E	as dangerous fo IARC: Xylene - Mutagenicity dangerous for t - Reproductive	city: Based on available data, the or the effects mentioned. For mor (3); Ethylbenzene (2B) /: Based on available data, the cla this effect. For more information s e toxicity: Based on available data ngerous for this effect. For more i cts:	e information see sections issification criteria are r see section 3. In the classification crite	on 3. not met, as it doo eria are not met,	es not contain substanc	es classified as
F	dangerous with - Cutaneous:	Based on available data, the class a sensitising effects. For more info Prolonged contact with the skin ca organ toxicity (STOT) - single exp	rmation see section 3. an result in episodes of			classified as
	Causes irritation	n in respiratory passages, which is	s normally reversible ar	nd limited to the	upper respiratory passa	ages.
c		organ toxicity (STOT)-repeated ex	-			
 Skin: 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. H- Aspiration hazard: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3. Other information: 					ould not be	
C	 Aspiration haza Based on availa for this effect. I 	rd: able data, the classification criteria For more information see section		r, it does contair	n substances classified a	is dangerous
C	 Aspiration haza Based on availa for this effect. I Dther informatio Non-applicable 	rd: able data, the classification criteria For more information see section on: gy information on the substar	3.			is dangerous
S S	 H- Aspiration haza Based on availa for this effect. I Other information Non-applicable Specific toxicology 	rd: able data, the classification criteria For more information see section i on: gy information on the substar Identification	3.	A	cute toxicity	Genus
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C N S	 H- Aspiration haza Based on availa for this effect. I Dther information Non-applicable Specific toxicolog Hexamethylene diisoco CAS: 28182-81-2 	rd: able data, the classification criteria For more information see section i on: gy information on the substar Identification	3.	Ar LD50 oral LD50 dermal	cute toxicity 5100 mg/kg >2000 mg/kg	Genus
0 N S	 H- Aspiration haza Based on availa for this effect. I Dther information Non-applicable Specific toxicolo Hexamethylene diisocr CAS: 28182-81-2 EC: 931-274-8 	ard: able data, the classification criteria For more information see section i on: gy information on the substar Identification yanate, oligomers	3.	Ar LD50 oral LD50 dermal LC50 inhalation	cute toxicity 5100 mg/kg >2000 mg/kg 11 mg/L (4 h) (ATEi)	Genus Rat
9 	 H- Aspiration haza Based on availa for this effect. I Dther information Non-applicable Specific toxicolo Hexamethylene diisocy CAS: 28182-81-2 EC: 931-274-8 2-methoxy-1-methylet 	ard: able data, the classification criteria For more information see section i on: gy information on the substar Identification yanate, oligomers	3.	Ari LD50 oral LD50 dermal LC50 inhalation LD50 oral	cute toxicity 5100 mg/kg >2000 mg/kg 11 mg/L (4 h) (ATEi) 8532 mg/kg	Genus Rat Rat
0 N S	 Aspiration haza Based on availa for this effect. I Dther information Non-applicable Specific toxicolo Hexamethylene diisoc CAS: 28182-81-2 EC: 931-274-8 2-methoxy-1-methylet CAS: 108-65-6 	ard: able data, the classification criteria For more information see section i on: gy information on the substar Identification yanate, oligomers	3. nces:	LD50 oral LD50 dermal LD50 oral LD50 oral LD50 dermal	cute toxicity 5100 mg/kg >2000 mg/kg 11 mg/L (4 h) (ATEi) 8532 mg/kg 5100 mg/kg	Genus Rat Rat Rat Rat
C S I I I I I I I I I I I I I I I I I I	 Aspiration haza Based on availa for this effect. I Dther information Non-applicable Specific toxicolo Hexamethylene diisocy CAS: 28182-81-2 EC: 931-274-8 2-methoxy-1-methylet CAS: 108-65-6 EC: 203-603-9 	ard: able data, the classification criteria For more information see section i on: gy information on the substar Identification yanate, oligomers	3. nces:	LD50 oral LD50 dermal LD50 oral LD50 oral LD50 oral LD50 dermal LD50 inhalation	cute toxicity 5100 mg/kg >2000 mg/kg 11 mg/L (4 h) (ATEi) 8532 mg/kg 5100 mg/kg 30 mg/L (4 h)	Genus Rat Rat Rat Rat Rat Rat
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S	 Aspiration haza Based on availa for this effect. I Dther information Non-applicable Specific toxicolo Hexamethylene diisoco CAS: 28182-81-2 EC: 931-274-8 2-methoxy-1-methylet CAS: 108-65-6 EC: 203-603-9 Xylene CAS: 130-20-7 EC: 215-535-7 Ethylbenzene CAS: 100-41-4 EC: 202-849-4 Hydrocarbons, C9, arc 	ard: able data, the classification criteria For more information see section i an: gy information on the substar Identification yanate, oligomers thyl acetate	3. nces:	Ar LD50 oral LD50 dermal LD50 dermal LD50 dermal LD50 dermal LD50 oral LD50 dermal LD50 oral LD50 oral LD50 oral LD50 dermal LD50 dermal LD50 dermal LD50 dermal LD50 dermal	cute toxicity 5100 mg/kg >2000 mg/kg 11 mg/L (4 h) (ATEi) 8532 mg/kg 5100 mg/kg 30 mg/L (4 h) 2100 mg/kg 1100 mg/kg (ATEi) 11 mg/L (4 h) (ATEi) 3500 mg/kg 15354 mg/kg 17,2 mg/L (4 h) >2000 mg/kg	Genus Rat Rat Rat Rat Rat Rat Rat Rat Rat Rat
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	 Aspiration haza Based on availa for this effect. I Dther information Non-applicable Specific toxicological Hexamethylene diisoco CAS: 28182-81-2 EC: 931-274-8 2-methoxy-1-methylet CAS: 108-65-6 EC: 203-603-9 Xylene CAS: 1330-20-7 EC: 215-535-7 Ethylbenzene CAS: 100-41-4 EC: 202-849-4 Hydrocarbons, C9, arc CAS: 64742-95-6 EC: 918-668-5 	able data, the classification criteria For more information see section is gy information on the substar Identification yanate, oligomers thyl acetate	3. nces:	Ar LD50 oral LD50 dermal LD50 dermal LD50 oral LD50 oral LD50 oral LD50 oral LD50 dermal LD50 oral LD50 oral LD50 oral LD50 oral LD50 dermal LD50 oral LD50 oral	cute toxicity 5100 mg/kg >2000 mg/kg 11 mg/L (4 h) (ATEi) 8532 mg/kg 5100 mg/kg 30 mg/L (4 h) 2100 mg/kg 1100 mg/kg (ATEi) 11 mg/L (4 h) (ATEi) 3500 mg/kg (ATEi) 11 mg/L (4 h) (ATEi) 3500 mg/kg 15354 mg/kg 17,2 mg/L (4 h) >2000 mg/kg >2000 mg/kg >2000 mg/kg	Genus Rat Rat Rat Rat Rat Rat Rat Rat Rat Rat

SECTION 12: ECOLOGICAL INFORMATION **

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

^{**} Changes with regards to the previous version



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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

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Version: 2 (Replaced 1)

12.1 Toxicity:

Identification		Acute toxicity	Species	Genus
Xylene	LC50	13.5 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 1330-20-7	EC50	3.4 mg/L (48 h)	Ceriodaphnia dubia	Crustacean
EC: 215-535-7	EC50	10 mg/L (72 h)	Skeletonema costatum	Algae
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
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		
Hydrocarbons, C9, aromatics (EC 200-753-7 <0,1%)	LC50	1 - 10 mg/L (96 h)		Fish
CAS: 64742-95-6	EC50	1 - 10 mg/L		Crustacean
EC: 918-668-5	EC50	1 - 10 mg/L		Algae
Ethylbenzene	LC50	42.3 mg/L (96 h)	Pimephales promelas	Fish
CAS: 100-41-4	EC50	75 mg/L (48 h)	Daphnia magna	Crustacean
EC: 202-849-4	EC50	63 mg/L (3 h)	Chlorella vulgaris	Algae

12.2 Persistence and degradability:

Identification	Degra	adability	Biodegradab	ility
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 %
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:

Identification		Bioaccumulation potential	
Xylene		BCF	9
CAS: 1330-20-7		Pow Log	2.77
EC: 215-535-7		Potential	Low
2-methoxy-1-methylethyl acetate		BCF	1
CAS: 108-65-6		Pow Log	0.43
EC: 203-603-9		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	Absorpti	Absorption/desorption		Volatility	
Xylene	Кос	202	Henry	524,86 Pa·m ³ /mol	
CAS: 1330-20-7	Conclusion	Moderate	Dry soil	Yes	
EC: 215-535-7	Surface tension	Non-applicable	Moist soil	Yes	
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	
Results of PBT and vPvB assessment:					

** Changes with regards to the previous version



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Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

** Changes with regards to the previous version

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
15 01 10* 08 01 11*	packaging containing residues of or contaminated by hazardous substances waste paint and varnish containing organic solvents or other hazardous substances	Dangerous

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

SECTION 12: ECOLOGICAL INFORMATION ** (continued)

HP14 Ecotoxic, HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, 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. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

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

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

SECTION 14: TRANSPORT INFORMATION **

Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:

	14.2	UN number: UN proper shipping name: Transport hazard class(es): Labels:	UN1263 PAINT 3 3
	14.4	Packing group:	III
3	14.5	Environmental hazards:	No
•	14.6	Special precautions for user	
		Special regulations:	163, 367, 650
		Tunnel restriction code:	D/E
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transport of da	ngero	us goods by sea:	
		4.6	

With regard to IMDG 38-16:



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SECTION 14: TRANSPO	ORT INFORMATION ** (continued)	
	 14.1 UN number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): Labels: 14.4 Packing group: 14.5 Environmental hazards: 14.6 Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: 	UN1263 PAINT 3 3 III No 163, 223, 367, 955 F-E, S-E see section 9 5 L	
	Segregation group: 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable Non-applicable	
-	ngerous goods by air:		
With regard to IAT	A/ICAO 2020:		
	 14.1 UN number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): Labels: 14.4 Packing group: 14.5 Environmental hazards: 14.6 Special precautions for user Physico-Chemical properties: 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: 	UN1263 PAINT 3 3 III No see section 9 Non-applicable	

** Changes with regards to the previous version

SECTION 15: REGULATORY INFORMATION

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

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

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

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

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

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

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

Non-applicable

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:



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SECTION 15: REGULATORY INFORMATION (continued)

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION **

_01	ION 10; UTHER INFORMATION ***
	Legislation related to safety data sheets:
	This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of
	Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)
	Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:
	COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):
	· New declared substances
	Xylene (1330-20-7)
	Hexamethylene diisocyanate, oligomers (28182-81-2)
	2-methoxy-1-methylethyl acetate (108-65-6)
	Hydrocarbons, C9, aromatics (EC 200-753-7 <0,1%) (64742-95-6)
	Ethylbenzene (100-41-4) Hexamethylene-di-isocyanate (822-06-0)
	Substances that contribute to the classification (SECTION 2):
	· New declared substances
	Xylene (1330-20-7)
	Hexamethylene diisocyanate, oligomers (28182-81-2)
	Hydrocarbons, C9, aromatics (EC 200-753-7 <0,1%) (64742-95-6)
	Ethylbenzene (100-41-4)
	CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16): · Pictograms
	· Hazard statements
	· Precautionary statements
	· Supplementary information
	TRANSPORT INFORMATION (SECTION 14):
	· UN number
	Packing group
	Texts of the legislative phrases mentioned in section 2:
	H317: May cause an allergic skin reaction
	H335: May cause respiratory irritation H315: Causes skin irritation
	H373: May cause damage to organs through prolonged or repeated exposure (Oral)
	H412: Harmful to aquatic life with long lasting effects
	H332: Harmful if inhaled
	H226: Flammable liquid and vapour
	H319: Causes serious eye irritation
	Texts of the legislative phrases mentioned in section 3:
	The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the
	individual components which appear in section 3
	CLP Regulation (EC) No 1272/2008:
	Acute Tox. 3: H331 - Toxic if inhaled
	Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled Acute Tox. 4: H332 - Harmful if inhaled
	Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
	Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways
	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
	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 RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral)
	STOT SE 3: H335 - May cause respiratory irritation
	STOT SE 3: H336 - May cause drowsiness or dizziness
	Classification procedure:

** Changes with regards to the previous version



HARDENER for V2018 ANTICORROSIVE RAPID DRYING HS 1:4 HARDENER for V2018 ANTICORROSIVE RAPID DRYING HS 1:5

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SECTION 16: OTHE	R INFORMATION ** (continued)							
STOT SE 3: Calo Skin Irrit. 2: Calo STOT RE 2: Calo Aquatic Chronic Acute Tox. 4: Ca Flam. Liq. 3: Ca Eye Irrit. 2: Calo	Skin Sens. 1: Calculation method STOT SE 3: Calculation method Skin Irrit. 2: Calculation method STOT RE 2: Calculation method Aquatic Chronic 3: Calculation method Acute Tox. 4: Calculation method Flam. Liq. 3: Calculation method Eye Irrit. 2: Calculation method							
Advice related	-							
	is recommended in order to prevent ind and interpretation of this safety data she							
Principal bibli	ographical sources:							
http://echa.euro http://eur-lex.eu								
Abbreviations	and acronyms:							
IMDG: Internation IATA: Internation ICAO: Internation COD: Chemical BOD5: 5-day bion BCF: Bioconcent LD50: Lethal Doon LC50: Lethal Content EC50: Effective Log-POW: Octant	ose 50	carriage of dangerous goods	by road					

** Changes with regards to the previous version

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.