

O-40-277HN XTRM-DRY Hardener normal

	REFINISH	Q-40-277HN X1	RM-DRY Hardener normal
ate of	compilation: 28/02/2020 R	evised: 09/06/2022	Version: 3 (Replaced 2)
SECT	TION 1: IDENTIFICATION OF	THE SUBSTANCE/M	IIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier:	O-40-277HN	XTRM-DRY Hardener normal
	Other means of identification	-	
	UFI:	N8M0-J0DD-4	400W-0XA1
1.2	Relevant identified uses of th	e substance or mixt	ure and uses advised against:
	Relevant uses: Hardener for coat	ings. For professional u	isers only.
	Uses advised against: All uses no	ot specified in this section	on or in section 7.3
1.3	Details of the supplier of the	safety data sheet:	
	Q-Company Int. GmbH Lentföhrdener Strasse 12-14 D-24576 Weddelbrook - Germany Phone: +49 (0)4192 891420 msds@qrefinish.com		
1.4	Emergency telephone numbe	er: +49 (0)551-19240) (Giftinformationszentrum-Nord)
SECT	TION 2: HAZARDS IDENTIFIC	ATION **	
2.1	Classification of the substand	e or mixture:	
	CLP Regulation (EC) No 1272	2/2008:	
	Classification of this product has	been carried out in acc	cordance with CLP Regulation (EC) No 1272/2008.
	Asp. Tox. 1: Aspiration hazard, C Eye Irrit. 2: Eye irritation, Catego Flam. Liq. 3: Flammable liquids, Skin Irrit. 2: Skin irritation, Catego Skin Sens. 1: Sensitisation, skin, STOT RE 2: Specific target organ	the aquatic environme Category 1, H304 ory 2, H319 Category 3, H226 gory 2, H315 Category 1, H317 n toxicity — Repeated en toxicity — Repeated e	nt, long-term hazard, Category 3, H412 exposure, Hazard Category 2 (Oral), H373 exposure, Hazard Category 2, H373
2.2	Label elements:		
	CLP Regulation (EC) No 1272	2/2008:	
	Danger		
	() 🚯 🚯		
	Hazard statements:		
	H226 - Flammable liquid and vap H304 - May be fatal if swallowed H315 - Causes skin irritation. H317 - May cause an allergic ski H319 - Causes serious eye irritat H332 - Harmful if inhaled. H335 - May cause respiratory irr H373 - May cause damage to orr H373 - May cause damage to orr H412 - Harmful to aquatic life wi	l and enters airways. n reaction. ion. itation. gans through prolonged gans through prolonged	
	Precautionary statements:		

** Changes with regards to the previous version



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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Supplementary information:

EUH204: Contains isocyanates. May produce an allergic reaction.

Substances that contribute to the classification

Xylene; Hexamethylene diisocyanate, oligomers; Ethylbenzene; Toluene diisocyanate, oligomeric reaction products with 2,2'oxydiethanol and propylidenetrimethanol

Additional Labelling:

As from 24 August 2023 adequate training is required before industrial or professional use.

UFI: N8M0-J0DD-400W-0XA1

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

Endocrine-disrupting properties: The product fails to meet the 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: Index: REACH:	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32- XXXX	Xylene(1) Self-classified 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	30 - <40 %
CAS: EC: Index: REACH:	28182-81-2 931-274-8 Non-applicable 01-2119485796-17- XXXX	Hexamethylene diisocyanate, oligomers ⁽¹⁾ Self-classified Regulation 1272/2008 Acute Tox. 4: H332; Skin Sens. 1: H317; STOT SE 3: H335 - Warning	20 - <30 %
	100-41-4 202-849-4 601-023-00-4 01-2119489370-35- XXXX	Ethylbenzene(1) ATP ATP06 Regulation 1272/2008 Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger	10 - <25 %
CAS: EC: Index: REACH:	123-86-4 204-658-1 607-025-00-1 01-2119485493-29- XXXX	N-butyl acetate(1) ATP CLP00 Regulation 1272/2008 Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	10 - <15 %
CAS: EC: Index: REACH:	53317-61-6 500-120-8 Non-applicable Non-applicable	Toluene diisocyanate, oligomeric reaction products with 2,2´-oxydiethanol and propylidenetrimethanol ⁽¹⁾ Self-classified Regulation 1272/2008 Eye Irrit. 2: H319; Skin Sens. 1: H317 - Warning	5 - <10 %

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

(2) Substance with a Union workplace exposure limit



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

	Identification		Chemical name/Classification			
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		5 - <10 %	
	141-78-6	Ethyl acetate ⁽¹⁾		ATP CLP00		
	205-500-4 607-022-00-5 01-2119475103-46- XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger		<5 %	

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

⁽²⁾ Substance with a Union workplace exposure limit

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

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:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

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:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2).

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:



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SECTION 5: FIREFIGHTING MEASURES (continued)

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.

For emergency responders:

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

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.

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

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



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SECTION 7: HANDLING AND	STORAGE (continued)	
Minimum Temp.:	5 °C	
Maximum Temp.:	25 °C	
Maximum time:	12 Months	
B General conditions for s	torage	
Avoid sources of heat,	adiation, static electricity and	d 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):

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 ³	
CAS: 1330-20-7	EC: 215-535-7	IOELV (STEL)	100 ppm	442 mg/m ³	
N-butyl acetate		IOELV (8h)	50 ppm	241 mg/m ³	
CAS: 123-86-4	EC: 204-658-1	IOELV (STEL)	150 ppm	723 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	
2-methoxy-1-met	hylethyl 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	
Ethyl acetate		IOELV (8h)	200 ppm	734 mg/m ³	
CAS: 141-78-6	EC: 205-500-4	IOELV (STEL)	400 ppm	1468 mg/m ³	

DNEL (Workers):

		Short	Short exposure		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	212 mg/kg	Non-applicable	
EC: 215-535-7	Inhalation	442 mg/m ³	442 mg/m ³	221 mg/m ³	221 mg/m ³	
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	
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 ³	600 mg/m ³	300 mg/m ³	300 mg/m ³	
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	
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 ³	275 mg/m ³	Non-applicable	
Ethyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 141-78-6	Dermal	Non-applicable	Non-applicable	63 mg/kg	Non-applicable	
EC: 205-500-4	Inhalation	1468 mg/m ³	1468 mg/m ³	734 mg/m ³	734 mg/m ³	



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SECTION 8: EXPOSURE CONTROL S/PERSONAL PROTECTION (continu

		Short	exposure	Long	g exposure
Identification		Systemic	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 ³	260 mg/m ³	65,3 mg/m ³	65,3 mg/m ³
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 ³	300 mg/m ³	35,7 mg/m ³	35,7 mg/m ³
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
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 ³	33 mg/m ³
Ethyl acetate	Oral	Non-applicable	Non-applicable	4,5 mg/kg	Non-applicable
CAS: 141-78-6	Dermal	Non-applicable	Non-applicable	37 mg/kg	Non-applicable
EC: 205-500-4	Inhalation	734 mg/m ³	734 mg/m ³	367 mg/m ³	367 mg/m ³
PNEC:					
Identification					
Xylene	STP	6,58 mg/L	Fresh water	1	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	n water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marin	ne water)	12,46 mg/kg
Hexamethylene diisocyanate, oligomers	STP	88 mg/L	Fresh water		0,127 mg/L
CAS: 28182-81-2	Soil	53183 mg/kg	Marine water		0,013 mg/L
EC: 931-274-8	Intermittent	1,27 mg/L	Sediment (Fresh	n water)	266701 mg/kg
	Oral	Non-applicable	a-applicable Sediment (Marine water)		26670 mg/kg
N-butyl acetate	STP	35,6 mg/L	Fresh water		0,18 mg/L
CAS: 123-86-4	Soil	0,09 mg/kg	Marine water		0,018 mg/L
EC: 204-658-1	Intermittent	0,36 mg/L	Sediment (Fresh	n water)	0,981 mg/kg
	Oral	Non-applicable	Sediment (Marin	ne water)	0,098 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

CAS: 123-86-4	Soil	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
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
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	0,064 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
Ethyl acetate	STP	650 mg/L	Fresh water	0,24 mg/L
CAS: 141-78-6	Soil	0,148 mg/kg	Marine water	0,024 mg/L
EC: 205-500-4	Intermittent	1,65 mg/L	Sediment (Fresh water)	1,15 mg/kg
	Oral	0,2 g/kg	Sediment (Marine water)	0,115 mg/kg

8.2 Exposure controls:

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

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 2016/425/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.

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

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	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 recommend to use isolation equipment.
C	Specific protection				
	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	Replace the gloves at any sign of deterioration.
D		therefore to be checked p			I can not be calculated in advance with tot
	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory face protection	Face shield		EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to t manufacturer´s instructions. Use if there is a risk 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		EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
	Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties		EN ISO 13287:2020 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.
F	- Additional emergency measures				I
	Emergency mea	asure S	tandards	Emergency measu	ire Standards
	Emergency sho	ISO 3864-1:20	ISI Z358-1 011, ISO 3864-4:20	11 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
In of TION In Ap	both the product ar 9: PHYSICAL A formation on bas	e community legislation fond its container. For addit	ional informatio ERTIES cal properties:	n see subsection 7.1.D	ecommended to avoid environmental spilla
	ysical state at 20 °C	C:	Liqui		
	pearance:		Fluic		
	lour:			urless	
*Nc	ot relevant due to the na	ature of the product, not provid	ling information pro	perty of its hazards.	



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SECT	TON 9: PHYSICAL AND CHEMICAL PROPERTIE:	S (continued)
	Odour:	Characteristic
	Odour threshold:	Non-applicable *
	Volatility:	
	Boiling point at atmospheric pressure:	131 °C
	Vapour pressure at 20 °C:	1370 Pa
	Vapour pressure at 50 °C:	6353,38 Pa (6,35 kPa)
	Evaporation rate at 20 °C:	Non-applicable *
	Product description:	
	Density at 20 °C:	950 - 970 kg/m³
	Relative density at 20 °C:	0,95 - 0,97
	Dynamic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 40 °C:	<20,5 mm²/s
	Concentration:	Non-applicable *
	pH:	Non-applicable *
	Vapour density at 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:	23 ºC
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	315 °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 clas	ses:
	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 components:	Non-applicable *
	Other safety characteristics:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:



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SECTION 10: STABILITY AND REACTIVITY (continued)

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.

Revised: 09/06/2022

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

10.5 Incompatible materials:

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 (CO_2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

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

Dangerous health implications:

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

- 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):
 - 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):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: Toluene Diisocyanate (2B); Xylene (3); Ethylbenzene (2B)
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
 - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:



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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous

system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness. - Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified

as dangerous due to repetitive exposure. For more information see section 3.

H- Aspiration hazard:

The consumption of a considerable dose can cause pulmonary damage.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Ac	Acute toxicity	
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
Ethyl acetate	LD50 oral	4100 mg/kg	Rat
CAS: 141-78-6	LD50 dermal	20000 mg/kg	Rabbit
EC: 205-500-4	LC50 inhalation	Non-applicable	
N-butyl acetate	LD50 oral	12789 mg/kg	Rat
CAS: 123-86-4	LD50 dermal	14112 mg/kg	Rabbit
EC: 204-658-1	LC50 inhalation	23,4 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)	
Ethylbenzene	LD50 oral	3500 mg/kg	Rat
CAS: 100-41-4	LD50 dermal	15354 mg/kg	Rabbit
EC: 202-849-4	LC50 inhalation	17,2 mg/L (4 h)	Rat
Hexamethylene diisocyanate, oligomers	LD50 oral	5100 mg/kg	Rat
CAS: 28182-81-2	LD50 dermal	Non-applicable	
EC: 931-274-8	LC50 inhalation	11 mg/L (ATEi)	

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	
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	
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	



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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Concentration	Species	Genus	
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	
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	
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			
Ethyl acetate	LC50	230 mg/L (96 h)	Pimephales promelas	Fish	
CAS: 141-78-6	EC50	717 mg/L (48 h)	Daphnia magna	Crustacean	
EC: 205-500-4	EC50	3300 mg/L (48 h)	Scenedesmus subspicatus	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	
N-butyl acetate	NOEC	Non-applicable			
CAS: 123-86-4 EC: 204-658-1	NOEC	23,2 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	
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	
Ethyl acetate	NOEC	9,65 mg/L	Pimephales promelas	Fish	
CAS: 141-78-6 EC: 205-500-4	NOEC	2,4 mg/L	Daphnia magna	Crustacean	

12.2 Persistence and degradability:

Substance-specific information:

Identification	Deg	Iradability	Biodegra	dability
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 %
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 %
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 %
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 %
Ethyl acetate	BOD5	1,36 g O2/g	Concentration	100 mg/L
CAS: 141-78-6	COD	1,69 g O2/g	Period	14 days
EC: 205-500-4	BOD5/COD	0,8	% Biodegradable	83 %

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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Identification	Bioa	Bioaccumulation potential		
N-butyl acetate	BCF	4		
CAS: 123-86-4	Pow Log	1.78		
EC: 204-658-1	Potential	Low		
Ethylbenzene	BCF	1		
CAS: 100-41-4	Pow Log	3.15		
EC: 202-849-4	Potential	Low		
2-methoxy-1-methylethyl acetate	BCF	1		
CAS: 108-65-6	Pow Log	0.43		
EC: 203-603-9	Potential	Low		
Ethyl acetate	BCF	30		
CAS: 141-78-6	Pow Log	0.73		
EC: 205-500-4	Potential	Moderate		

12.4 Mobility in soil:

Identification	Absorpt	tion/desorption	Volati	lity
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
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
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
Ethyl acetate	Кос	59	Henry	13,58 Pa·m ³ /mol
CAS: 141-78-6	Conclusion	Very High	Dry soil	Yes
EC: 205-500-4	Surface tension	2,324E-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)
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	Dangerous

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

HP14 Ecotoxic, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP3 Flammable, 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. 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



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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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

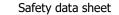
SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land: With regard to ADR 2021 and RID 2021: 14.1 UN number or ID number: UN1263 PAINT RELATED MATERIAL 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 3 Labels: 3 14.4 Packing group: III 14.5 Environmental hazards: No 14.6 Special precautions for user Special regulations: 163, 367, 650 Tunnel restriction code: D/E see section 9 Physico-Chemical properties: Limited quantities: 5 L 14.7 Maritime transport in bulk Non-applicable according to IMO instruments: Transport of dangerous goods by sea: With regard to IMDG 40-20: 14.1 UN number or ID number: UN1263 14.2 UN proper shipping name: PAINT RELATED MATERIAL 14.3 Transport hazard class(es): 3 Labels: 3 III 14.4 Packing group: 14.5 Marine pollutant: No 14.6 Special precautions for user Special regulations: 163, 223, 955, 367 EmS Codes: F-E, S-E Physico-Chemical properties: see section 9 Limited quantities: 5 L Segregation group: Non-applicable 14.7 Maritime transport in bulk Non-applicable according to IMO instruments: Transport of dangerous goods by air: With regard to IATA/ICAO 2022: 14.1 UN number or ID number: UN1263 14.2 UN proper shipping name: PAINT RELATED MATERIAL 14.3 Transport hazard class(es): 3 Labels: 3 14.4 Packing group: III 14.5 Environmental hazards: No 14.6 Special precautions for user Physico-Chemical properties: see section 9 14.7 Maritime transport in bulk Non-applicable according to IMO instruments:



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SECTI	ION 15: RE	EGULATORY IN	IFORMATION				
.5.1	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 II	[:					
	Section		Des	scription	Lower-tier requirements	Upper-tier requirements	
	P5c FLAMMABLE LIQUIDS 5000 50000						



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SECTION 15: REGULATORY INFORMATION (continued)

Shall not be used in:

----ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

-tricks and jokes,

-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Contains more than 0.1 % of Hexamethylene diisocyanate, oligomers, Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylidenetrimethanol by weight. 1. Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 August 2023, unless:

(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the employer or selfemployed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s).

2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless:

(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the supplier ensures that the recipient of the substance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label information: "As from 24 August 2023 adequate training is required before industrial or professional use".

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

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

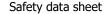
(a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s).

- (b) the training elements in points (a) and (b) of paragraph 5 for the following uses:
- handling open mixtures at ambient temperature (including foam tunnels)
- spraying in a ventilated booth
- application by roller
- application by brush
- application by dipping and pouring
- mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore
- cleaning and waste
- any other uses with similar exposure through the dermal and/or inhalation route
- (c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:
- handling incompletely cured articles (e.g. freshly cured, still warm)
- nationing incomp
 foundry applications
- maintenance and repair that needs access to equipment
- open handling of warm or hot formulations (> 45 °C)
- spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers)

- and any other uses with similar exposure through the dermal and/or

inhalation route.

- 5. Training elements:
- (a) general training, including on-line training, on:
- chemistry of diisocyanates
- toxicity hazards (including acute toxicity)
- exposure to diisocyanates
- occupational exposure limit values
- how sensitisation can develop
- odour as indication of hazard
- importance of volatility for risk
- viscosity, temperature, and molecular weight of diisocyanates
- personal hygiene
- personal protective equipment needed, including practical instructions for its correct use and its limitations
- risk of dermal contact and inhalation exposure
- risk in relation to application process used
- skin and inhalation protection scheme
- ventilation
- cleaning, leakages, maintenance
- discarding empty packaging
- protection of bystanders
- identification of critical handling stages



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SECTION 15: REGULATORY INFORMATION (continued)

- specific national code systems (if applicable)

- behaviour-based safety

- certification or documented proof that training has been successfully completed

(b) intermediate level training, including on-line training, on:

- additional behaviour-based aspects

- maintenance
- management of change
- evaluation of existing safety instructions
- risk in relation to application process used
- certification or documented proof that training has been successfully completed
- (c) advanced training, including on-line training, on:
- any additional certification needed for the specific uses covered
- spraying outside a spraying booth
- open handling of hot or warm formulations (> 45 °C)
- certification or documented proof that training has been successfully completed

6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate.

Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture (s), as long as the minimum requirements set out in paragraphs 4 and 5 are met.

7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including composition, packaging, and design.

8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed at least every five years.

9. Member States shall include in their reports pursuant to Article 117(1) the following information:

(a) any established training requirements and other risk management measures related to the industrial and professional uses of disocyanates foreseen in national law

(b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates

- (c) national exposure limits for diisocyanates, if there are any
- (d) information about enforcement activities related to this restriction.

10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the workplace.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION **

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

COMMISSION REGULATION (EU) 2020/878

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

Hazard statements

Texts of the legislative phrases mentioned in section 2:





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CTIC	N 16: OTHER INFORMATION ** (continued)
	317: May cause an allergic skin reaction.
	335: May cause respiratory irritation.
	315: Causes skin irritation. 412: Harmful to aquatic life with long lasting effects.
	373: May cause damage to organs through prolonged or repeated exposure (Oral).
	373: May cause damage to organs through prolonged or repeated exposure (oran).
	332: Harmful if inhaled.
	304: May be fatal if swallowed and enters airways.
	226: Flammable liquid and vapour.
Н	319: Causes serious eye irritation.
т	exts of the legislative phrases mentioned in section 3:
Т	he phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individu
C	omponents which appear in section 3
C	LP Regulation (EC) No 1272/2008:
A	cute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.
	cute Tox. 4: H332 - Harmful if inhaled.
A	quatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
	sp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
	ye Irrit. 2: H319 - Causes serious eye irritation.
	lam. Liq. 2: H225 - Highly flammable liquid and vapour.
	lam. Liq. 3: H226 - Flammable liquid and vapour.
	kin Irrit. 2: H315 - Causes skin irritation.
	kin Sens. 1: H317 - May cause an allergic skin reaction. TOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).
	TOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.
	TOT SE 3: H335 - May cause respiratory irritation.
	TOT SE 3: H336 - May cause drowsiness or dizziness.
~	lassification procedure:
	kin Sens. 1: Calculation method
	TOT SE 3: Calculation method
	kin Irrit. 2: Calculation method
	quatic Chronic 3: Calculation method
	TOT RE 2: Calculation method
	TOT RE 2: Calculation method
A	cute Tox. 4: Calculation method
A	sp. Tox. 1: Calculation method
F	am. Liq. 3: Calculation method (2.6.4.3)
E	ye Irrit. 2: Calculation method
A	dvice related to training:
Т	raining is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and
	terpretation of this safety data sheet, as well as the label on the product.
P	rincipal bibliographical sources:
	ttp://echa.europa.eu
	ttp://eur-lex.europa.eu
A	bbreviations and acronyms:
	DR: European agreement concerning the international carriage of dangerous goods by road
	4DG: International maritime dangerous goods code
	ATA: International Air Transport Association
	CAO: International Civil Aviation Organisation
	OD: Chemical Oxygen Demand
	OD5: 5day biochemical oxygen demand
	CF: Bioconcentration factor
	D50: Lethal Dose 50
	C50: Lethal Concentration 50
	C50: Effective concentration 50
	ogPOW: Octanolwater partition coefficient
	oc: Partition coefficient of organic carbon
	FI: unique formula identifier ARC: International Agency for Research on Cancer
Т -	



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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.