Safety data sheet

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



SEC		
020	TION 1: IDENTIFICATION OF THE	SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier:	UTWARDZACZ DO LAKIERU BEZBARWNEGO VHS 2:1 - HARDENER FOR CLEARCOAT 2:1 VHS
	Other means of identification:	
	UFI:	2GC9-9137-K00W-KTYD
1.2	Relevant identified uses of the sul	bstance or mixture and uses advised against:
	Relevant uses: Car refinishing- Harden	lers
	Uses advised against: All uses not spec	cified in this section or in section 7.3
1.3	Details of the supplier of the safet	ty data sheet:
	BOLL Wojciech Dalewski Spółka Jawna ul. Chemiczna 3 65-713 Zielona Góra - Polska Phone: 68 451 99 99 - Fax: 68 451 99 huszcza@boll.pl https://www.boll.pl	
1.4	Emergency telephone number:	
SEC	TION 2: HAZARDS IDENTIFICATIC)N **
2.1	Classification of the substance or	mixture:
	CLP Regulation (EC) No 1272/200	08:
	Classification of this product has been	carried out in accordance with CLP Regulation (EC) No 1272/2008.
	Flam. Liq. 3: Flammable liquids, Categ Skin Sens. 1: Sensitisation, skin, Categ STOT SE 3: Respiratory tract toxicity, s	iquatic environment, long-term hazard, Category 3, H412 gory 3, H226 gory 1, H317
2.2	Label elements:	
	CLP Regulation (EC) No 1272/200	08:
	Warning	
	Hazard statements:	
	Acute Tox. 4: H332 - Harmful if inhale Aquatic Chronic 3: H412 - Harmful to Flam. Liq. 3: H226 - Flammable liquid Skin Sens. 1: H317 - May cause an all STOT SE 3: H335 - May cause respirat STOT SE 3: H336 - May cause drowsir Precautionary statements :	aquatic life with long lasting effects. and vapour. ergic skin reaction. tory irritation.
	P261: Avoid breathing vapours P273: Avoid release to the environmen P280: Wear protective gloves/protective P303+P361+P353: IF ON SKIN (or ha	
	EUH066: Repeated exposure may cau EUH204: Contains isocyanates. May p Substances that contribute to the	roduce an allergic reaction.
** Chan	ges with regards to the previous version	
		- CONTINUED ON NEXT PAGE -

Revised: 08/07/2022 Version: 2 (Replaced 1)



UTWARDZACZ DO LAKIERU BEZBARWNEGO VHS 2:1 - HARDENER FOR CLEARCOAT 2:1 VHS

Hexamethylene diisocyanate, oligomers; N-butyl acetate; Hydrocarbons, C9, aromatics; Reaction mass of ethylbenzene and mxylene and p-xylene **Additional Labelling:** As from 24 August 2023 adequate training is required before industrial or professional use. UFI: 2GC9-9137-K00W-KTYD The product packaging must include: tactile warning. 2.3

Other hazards:

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION IGREDIENT

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Hardener based on isocyanate resin in organic solvents.

Components:

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

					Concentration			
	Identification		Chemical name/Classification					
CAS:	28182-81-2	Hexamethylene diiso	lexamethylene diisocyanate, oligomers ⁽¹⁾ Self-classified					
EC: 500-060-2 Index: Non-applicable REACH: Non-applicable		Regulation 1272/2008	egulation 1272/2008 Skin Sens. 1: H317 - Warning		50 - <100 %			
CAS:	123-86-4	N-butyl acetate ⁽¹⁾		ATP CLP00				
EC: Index: REACH:	204-658-1 607-025-00-1 01-2119485493-29- XXXX	Regulation 1272/2008	n 1272/2008 Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning		10 - <19,99 %			
CAS:	128601-23-0	Hydrocarbons, C9, a	Hydrocarbons, C9, aromatics ⁽¹⁾ Self-classified					
EC: 918-668-5 Index: Non-applicable REACH: 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	() () () ()	10 - <19,99 %			
CAS:	Non-applicable	Reaction mass of eth	ylbenzene and m-xylene and p-xylene ⁽¹⁾	Self-classified				
EC: 905-562-9 Index: Non-applicable REACH: 01-2119555267-33- 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	() 🔕 🚸	5 - <9,99 %			
CAS:	64742-95-6	Solvent naphtha (pe	troleum), light arom. , < 0.1 % EC 200-753-7 ⁽¹⁾	Self-classified				
EC: 265-199-0 Index: 649-356-00-4 REACH: 01-2119486773-24- XXXX	649-356-00-4 01-2119486773-24-	Regulation 1272/2008	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H336 - Danger	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	3 - <4,99 %			

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

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

Other information:

Identification	Specific concentration limit				
Reaction mass of ethylbenzene and m-xylene and p-xylene CAS: Non-applicable EC: 905-562-9	% (w/w) >=10: STOT RE 2 - H373				
Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:					



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)							
Identification Acute toxicity Genus							
Reaction mass of ethylbenzene and m-xylene and p-xylene	LD50 oral	LD50 oral Not relevant					
CAS: Non-applicable	LD50 dermal 1100 mg/kg		Rat				
EC: 905-562-9	LC50 inhalation	11 mg/L (ATEi)					

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 lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of 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:

Not available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

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

Additional provisions:

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



SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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

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

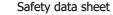
Minimum Temp.:	10 °C
Maximum Temp.:	25 °C
Maximum time:	24 Months

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.





UTWARDZACZ DO LAKIERU BEZBARWNEGO VHS 2:1 - HARDENER FOR CLEARCOAT 2:1 VHS

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	Occupa	ational exposure lin	nits
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

DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
N-butyl acetate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 123-86-4	Dermal	11 mg/kg	Not relevant	11 mg/kg	Not relevant
EC: 204-658-1	Inhalation	600 mg/m ³	600 mg/m ³	300 mg/m ³	300 mg/m ³
Hydrocarbons, C9, aromatics	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 128601-23-0	Dermal	Not relevant	Not relevant	25 mg/kg	Not relevant
EC: 918-668-5	Inhalation	Not relevant	Not relevant	150 mg/m ³	Not relevant
Reaction mass of ethylbenzene and m-xylene and p-xylene	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: Non-applicable	Dermal	Not relevant	Not relevant	212 mg/kg	Not relevant
EC: 905-562-9	Inhalation	442 mg/m ³	442 mg/m ³	221 mg/m ³	221 mg/m ³
Solvent naphtha (petroleum), light arom. , < 0.1 % EC 200 -753-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 64742-95-6	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 265-199-0	Inhalation	1286,4 mg/m ³	1066,67 mg/m ³	Not relevant	837,5 mg/m ³

DNEL (General population):

		Short exposure		Long e	exposure
Identification		Systemic	Local	Systemic	Local
N-butyl acetate	Oral	2 mg/kg	Not relevant	2 mg/kg	Not relevant
CAS: 123-86-4	Dermal	6 mg/kg	Not relevant	6 mg/kg	Not relevant
EC: 204-658-1	Inhalation	300 mg/m ³	300 mg/m ³	35,7 mg/m ³	35,7 mg/m ³
Hydrocarbons, C9, aromatics	Oral	Not relevant	Not relevant	11 mg/kg	Not relevant
CAS: 128601-23-0	Dermal	Not relevant	Not relevant	11 mg/kg	Not relevant
EC: 918-668-5	Inhalation	Not relevant	Not relevant	32 mg/m ³	Not relevant
Reaction mass of ethylbenzene and m-xylene and p-xylene	Oral	Not relevant	Not relevant	12,5 mg/kg	Not relevant
CAS: Non-applicable	Dermal	Not relevant	Not relevant	125 mg/kg	Not relevant
EC: 905-562-9	Inhalation	260 mg/m ³	260 mg/m ³	65,3 mg/m ³	65,3 mg/m ³
Solvent naphtha (petroleum), light arom. , < 0.1 % EC 200 -753-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 64742-95-6	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 265-199-0	Inhalation	1152 mg/m ³	640 mg/m ³	Not relevant	178,57 mg/m ³

PNEC:

Identification				
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 water)	0,981 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,098 mg/kg
Reaction mass of ethylbenzene and m-xylene and p-xylene	STP	6,58 mg/L	Fresh water	0,327 mg/L
CAS: Non-applicable	Soil	2,31 mg/kg	Marine water	0,327 mg/L
EC: 905-562-9	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Not relevant	Sediment (Marine water)	12,46 mg/kg

8.2 Exposure controls:



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

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

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours		EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	NON-disposable chemical protective gloves		EN ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 EN ISO 21420:2020	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Face shield		EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties		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

Emergency measure	Standards	Emergency measure	Standards
-	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	● + ►	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D



UTWARDZACZ DO LAKIERU BEZBARWNEGO VHS 2:1 - HARDENER FOR CLEARCOAT 2:1 VHS

	TION 9: PHYSICAL AND CHEMICAL PROPERTIE	
).1	Information on basic physical and chemical pro	
	For complete information see the product datasheet.	
	Appearance:	
	Physical state at 20 °C:	Liquid
	Appearance:	Fluid
	Colour:	Colourless
	Odour:	Characteristic
	Odour threshold:	Not available *
	Volatility:	
	Boiling point at atmospheric pressure:	117 °C
	Vapour pressure at 20 °C:	1800 Pa
	Vapour pressure at 50 °C:	Not available *
	Evaporation rate at 20 °C:	Not available *
	Product description:	
	Density at 20 °C:	1010 kg/m³
	Relative density at 20 °C:	1,01
	Dynamic viscosity at 20 °C:	Not available *
	Kinematic viscosity at 20 °C:	Not available *
	Kinematic viscosity at 40 °C:	>20,5 mm²/s
	Concentration:	Not available *
	pH:	Not available *
	Vapour density at 20 °C:	Not available *
	Partition coefficient n-octanol/water 20 °C:	Not available *
	Solubility in water at 20 °C:	Not available *
	Solubility properties:	Insoluble
	Decomposition temperature:	Not available *
	Melting point/freezing point:	Not available *
	Flammability:	
	Flash Point:	17 °C
	Flammability (solid, gas):	Not available *
	Autoignition temperature:	423 °C
	Lower flammability limit:	1,1 % Volume
	Upper flammability limit:	10,5 % Volume
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
.2	Other information:	
	Information with regard to physical hazard cla	sses:
	Explosive properties:	Not available *
	Oxidising properties:	Not available *
	Corrosive to metals:	Not available *
	Heat of combustion:	Not available *
	Aerosols-total percentage (by mass) of flammable	Not available *
	components: Other safety characteristics:	
	*Not available due to the nature of the product, not providing in	

Safety data sheet

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UTWARDZACZ DO LAKIERU BEZBARWNEGO VHS 2:1 - HARDENER FOR CLEARCOAT 2:1 VHS

SECTION 9: PHYS			continued)
SECTION 9: PHYSI	LAL AND CHEMICAL	. PROPERTIES ((.onunueu)

Surface tension at 20 °C:

Not available *

Refraction index:

Not available *

*Not available due to the nature of the product, not providing information 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 from Safety Data Sheet.

10.2 Chemical stability:

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

10.3 Possibility of hazardous reactions:

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

10.4 Conditions to avoid:

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
			<u>.</u>	

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: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- 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: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
 - Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):



UTWARDZACZ DO LAKIERU BEZBARWNEGO VHS 2:1 - HARDENER FOR CLEARCOAT 2:1 VHS

ION 11: TOXICOLOGICAL INFORMATION (continued)			
 Carcinogenicity: Based on available data, the classification of as hazardous for the effects mentioned. For more information a IARC: Hydrocarbons, C9, aromatics (3); Reaction mass of et (petroleum), light arom. , < 0.1 % EC 200-753-7 (3) Mutagenicity: Based on available data, the classification critt hazardous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classificat classified as hazardous for this effect. For more information see Sensitizing effects: 	see section 3. hylbenzene and m-xylene eria are not met, as it do ation criteria are not met,	e and p-xylene (3); Solve es not contain substanc	ent naphth es classifie
 Respiratory: Based on available data, the classification criter hazardous with sensitising effects. For more information see se Skin: Prolonged contact with the skin can result in episodes F- Specific target organ toxicity (STOT) - single exposure: 	ection 3.		s classified
Causes irritation in respiratory passages, which is normally rev	ersible and limited to the	upper respiratory passa	ages.
G- Specific target organ toxicity (STOT)-repeated exposure:		,	U
 Skin: Repeated exposure may cause skin dryness or crackin Achieved a standard 	g		
 Skin: Repeated exposure may cause skin dryness of crackin H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: 	-	n substances classified a	as hazardou
H- Aspiration hazard:Based on available data, the classification criteria are not met. for this effect. For more information see section 3.	-	n substances classified a	as hazardoı
 H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: Not relevant 	However, it does contain	n substances classified a	as hazardou Genus
 H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: Not relevant Specific toxicology information on the substances: 	However, it does contain		
 H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: Not relevant Specific toxicology information on the substances: Identification 	However, it does contain	cute toxicity	
 H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: Not relevant Specific toxicology information on the substances: Identification Hexamethylene diisocyanate, oligomers 	However, it does contain LD50 oral	cute toxicity >2000 mg/kg	
 H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: Not relevant Specific toxicology information on the substances: Identification Hexamethylene diisocyanate, oligomers CAS: 28182-81-2 	However, it does contain LD50 oral LD50 dermal LC50 inhalation LD50 oral	cute toxicity > 2000 mg/kg > 2000 mg/kg I 2789 mg/kg	
 H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: Not relevant Specific toxicology information on the substances: Identification Hexamethylene diisocyanate, oligomers CAS: 28182-81-2 EC: 500-060-2 	However, it does contain LD50 oral LD50 dermal LC50 inhalation	cute toxicity > 2000 mg/kg > 2000 mg/kg	Genu
 H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: Not relevant Specific toxicology information on the substances: Identification Hexamethylene diisocyanate, oligomers CAS: 28182-81-2 EC: 500-060-2 N-butyl acetate 	However, it does contain LD50 oral LD50 dermal LC50 inhalation LD50 oral	cute toxicity > 2000 mg/kg > 2000 mg/kg I 2789 mg/kg	Genu
 H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: Not relevant Specific toxicology information on the substances: Identification Hexamethylene diisocyanate, oligomers CAS: 28182-81-2 EC: 500-060-2 N-butyl acetate CAS: 123-86-4 	However, it does contain However, it does contain LD50 oral LD50 dermal LD50 dermal LD50 dermal LD50 dermal LD50 dermal LD50 oral LD50 oral	cute toxicity >2000 mg/kg >2000 mg/kg 12789 mg/kg 14112 mg/kg 23,4 mg/L (4 h) >2000 mg/kg	Genu Genu Rat Rabb
 H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: Not relevant Specific toxicology information on the substances: Identification Hexamethylene diisocyanate, oligomers CAS: 28182-81-2 EC: 500-060-2 N-butyl acetate CAS: 123-86-4 EC: 204-658-1 	However, it does contain However, it does contain LD50 oral LD50 dermal LD50 oral LD50 oral LD50 oral LD50 dermal LD50 dermal LD50 dermal	cute toxicity >2000 mg/kg >2000 mg/kg 12789 mg/kg 14112 mg/kg 23,4 mg/L (4 h)	Genu Genu Rat Rabb
 H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: Not relevant Specific toxicology information on the substances: Identification Hexamethylene diisocyanate, oligomers CAS: 28182-81-2 EC: 500-060-2 N-butyl acetate CAS: 123-86-4 EC: 204-658-1 Hydrocarbons, C9, aromatics CAS: 128601-23-0 EC: 918-668-5 	However, it does contain However, it does contain LD50 oral LD50 dermal LC50 inhalation LD50 dermal LD50 dermal LD50 oral LD50 oral LD50 oral LD50 dermal LD50 dermal	cute toxicity >2000 mg/kg >2000 mg/kg 12789 mg/kg 14112 mg/kg 23,4 mg/L (4 h) >2000 mg/kg	Genu Genu Rat Rabb
 H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: Not relevant Specific toxicology information on the substances: Identification Hexamethylene diisocyanate, oligomers CAS: 28182-81-2 EC: 500-060-2 N-butyl acetate CAS: 123-86-4 EC: 204-658-1 Hydrocarbons, C9, aromatics CAS: 128601-23-0 	However, it does contain However, it does contain LD50 oral LD50 dermal LD50 dermal LD50 dermal LD50 dermal LD50 oral LD50 dermal LD50 dermal LD50 dermal LD50 dermal LD50 dermal LD50 dermal	cute toxicity >2000 mg/kg >2000 mg/kg 12789 mg/kg 12789 mg/kg 14112 mg/kg 23,4 mg/L (4 h) >2000 mg/kg >2000 mg/kg >2000 mg/kg >2000 mg/kg >2000 mg/kg >2000 mg/kg >2000 mg/kg	Genu Rat Rabb Rat
 H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: Not relevant Specific toxicology information on the substances: Identification Hexamethylene diisocyanate, oligomers CAS: 28182-81-2 EC: 500-060-2 N-butyl acetate CAS: 123-86-4 EC: 204-658-1 Hydrocarbons, C9, aromatics CAS: 128601-23-0 EC: 918-668-5 	However, it does contain However, it does contain LD50 oral LD50 dermal LC50 inhalation LD50 dermal LD50 dermal LD50 oral LD50 oral LD50 oral LD50 dermal LD50 dermal	cute toxicity >2000 mg/kg >2000 mg/kg 12789 mg/kg 14112 mg/kg 23,4 mg/L (4 h) >2000 mg/kg >2000 mg/kg >2000 mg/kg	Genu Rat Rabb Rat
 H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: Not relevant Specific toxicology information on the substances: Identification Hexamethylene diisocyanate, oligomers CAS: 28182-81-2 EC: 500-060-2 N-butyl acetate CAS: 123-86-4 EC: 204-658-1 Hydrocarbons, C9, aromatics CAS: 128601-23-0 EC: 918-668-5 Reaction mass of ethylbenzene and m-xylene and p-xylene 	However, it does contain However, it does contain LD50 oral LD50 dermal LD50 dermal LD50 dermal LD50 dermal LD50 oral LD50 dermal LD50 dermal LD50 dermal LD50 dermal LD50 dermal LD50 dermal	cute toxicity >2000 mg/kg >2000 mg/kg 12789 mg/kg 12789 mg/kg 14112 mg/kg 23,4 mg/L (4 h) >2000 mg/kg >2000 mg/kg >2000 mg/kg >2000 mg/kg >2000 mg/kg >2000 mg/kg >2000 mg/kg	Genu Rat Rat Rabbi Rat
 H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: Not relevant Specific toxicology information on the substances: Identification Hexamethylene diisocyanate, oligomers CAS: 28182-81-2 EC: 500-060-2 N-butyl acetate CAS: 123-86-4 EC: 204-658-1 Hydrocarbons, C9, aromatics CAS: 128601-23-0 EC: 918-668-5 Reaction mass of ethylbenzene and m-xylene and p-xylene CAS: Non-applicable 	However, it does contain However, it does contain LD50 oral LD50 dermal LD50 dermal LD50 dermal LD50 dermal LD50 dermal LD50 dermal LD50 oral LD50 dermal LD50 oral LD50 oral	cute toxicity >2000 mg/kg >2000 mg/kg 12789 mg/kg 14112 mg/kg 23,4 mg/L (4 h) >2000 mg/kg >2000 mg/kg 23,4 mg/L (4 h) >2000 mg/kg >2000 mg/kg 5627 mg/kg 1100 mg/kg (ATEi)	Genus Rat Rat Rabbi Rat
 H- Aspiration hazard: Based on available data, the classification criteria are not met. for this effect. For more information see section 3. Other information: Not relevant Specific toxicology information on the substances: Identification Hexamethylene diisocyanate, oligomers CAS: 28182-81-2 EC: 500-060-2 N-butyl acetate CAS: 123-86-4 EC: 204-658-1 Hydrocarbons, C9, aromatics CAS: 128601-23-0 EC: 918-668-5 Reaction mass of ethylbenzene and m-xylene and p-xylene CAS: Non-applicable EC: 905-562-9 	However, it does contain However, it does contain LD50 oral LD50 dermal LC50 inhalation LD50 dermal LD50 dermal LD50 dermal LD50 dermal LD50 dermal LD50 oral LD50 dermal LD50 oral LD50 dermal LD50 dermal	cute toxicity >2000 mg/kg >2000 mg/kg 12789 mg/kg 14112 mg/kg 23,4 mg/L (4 h) >2000 mg/kg >2000 mg/kg >2000 mg/kg 5627 mg/kg 1100 mg/kg (ATEi) 11 mg/L (ATEi)	Genus Rat Rat Rabbi Rat Mouse

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

Other information

Not relevant

SECTION 12: ECOLOGICAL INFORMATION

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



SECTION 12: ECOLOGICAL INFORMATION (continued)

Harmful to aquatic life with long lasting effects.

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
N-butyl acetate	LC50	Not relevant		
CAS: 123-86-4	EC50	Not relevant		
EC: 204-658-1	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae
Hydrocarbons, C9, aromatics	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 128601-23-0	EC50	>1 - 10 mg/L (48 h)		Crustacean
EC: 918-668-5	EC50	>1 - 10 mg/L (72 h)		Algae
Solvent naphtha (petroleum), light arom. , < 0.1 % EC 200-753-7	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 64742-95-6	EC50	>1 - 10 mg/L (48 h)		Crustacean
EC: 265-199-0	EC50	>1 - 10 mg/L (72 h)		Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
N-butyl acetate	NOEC	Not relevant		
CAS: 123-86-4 EC: 204-658-1	NOEC	23,2 mg/L	Daphnia magna	Crustacean
Reaction mass of ethylbenzene and m-xylene and p-xylene	NOEC	1,3 mg/L	Oncorhynchus mykiss	Fish
CAS: Non-applicable EC: 905-562-9	NOEC	1,17 mg/L	Ceriodaphnia dubia	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradab	ility
N-butyl acetate	BOD5	Not relevant	Concentration	Not relevant
CAS: 123-86-4	COD	Not relevant	Period	5 days
EC: 204-658-1	BOD5/COD	Not relevant	% Biodegradable	84 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential		
N-butyl acetate	BCF	4	
CAS: 123-86-4	Pow Log	1.78	
EC: 204-658-1	Potential	Low	
Reaction mass of ethylbenzene and m-xylene and p-xylene	BCF	9	
CAS: Non-applicable	Pow Log	2.77	
EC: 905-562-9	Potential	Low	

12.4 Mobility in soil:

Identification	Absorption/desorption		Volati	ility
N-butyl acetate	Кос	Not relevant	Henry	Not relevant
CAS: 123-86-4	Conclusion	Not relevant	Dry soil	Not relevant
EC: 204-658-1	Surface tension	2,478E-2 N/m (25 °C)	Moist soil	Not relevant

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS



SECT	ION 13: DISI	POSAL CONSIDERATIONS (continued)				
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	Hazardous			
	Type of waste (Regulation (EU) No 1357/2014):					
	HP3 Flammable, HP14 Ecotoxic, 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-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.					
	Regulations related to waste management:					
	In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated					
	Community legislation: Directive 2008/98/EC_2014/955/EU_Regulation (EU) No 1357/2014					

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

SECTION 14: TRANSPORT INFORMATION **

Transport of d	langero	ous goods by land:	
With regard to	ADR 202	23 and RID 2023:	
	14.1	UN number or ID number:	UN1263
	14.2	UN proper shipping name:	PAINT RELATED MATERIAL
	14.3	Transport hazard class(es):	3
$\langle \simeq \rangle$		Labels:	3
	14.4	Packing group:	II
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	Maritime transport in bulk	Not relevant
		according to IMO instruments:	
Transport of d	langero	ous goods by sea:	
With regard to I	IMDG 41	-22:	
	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
$\langle - \rangle$	14.4	Packing group:	II
3	14.5	Marine pollutant:	No
	14.6	Special precautions for user	
		Special regulations:	163, 367
		EmS Codes:	F-E, S-E
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L
		Segregation group:	Not relevant
	14.7	Maritime transport in bulk according to IMO	Not relevant
		instruments:	

** Changes with regards to the previous version



With regard to I	ATA/ICA	O 2024:	
3	14.2 14.3 14.4	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards:	UN1263 PAINT RELATED MATERIAL 3 3 II No
		Special precautions for user Physico-Chemical properties: Maritime transport in bulk according to IMO instruments:	see section 9 Not relevant

** 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:

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

	Section	Description	Lower-tier requirements	Upper-tier requirements
ſ	P5c	FLAMMABLE LIQUIDS	5000	50000
	.imitations etc):	to commercialisation and the use of certain dangerous substances and mix	ktures (Annex)	XVII REACH,



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	Shall not be used in:
	 —ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamp 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 by weight. 1. Shall not be used as substances on their ov
	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 self-
	employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates
	prior to the use of the substance(s) or mixture(s).
	2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for indust
	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 lab
	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
	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)
	— 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
	— specific national code systems (if applicable)
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SECTION 15: REGULATORY INFORMATION (continued)

- 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 diisocyanates foreseen in national law

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

(c) national exposure limits for diisocyanates, if there are any

(d) information about enforcement activities related to this restriction.

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

Substances that contribute to the classification (SECTION 2):

- New declared substances
 - N-butyl acetate (123-86-4)
 - Hydrocarbons, C9, aromatics (128601-23-0)
- Hexamethylene diisocyanate, oligomers (28182-81-2)
- Reaction mass of ethylbenzene and m-xylene and p-xylene
- CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):
- Precautionary statements
- TRANSPORT INFORMATION (SECTION 14):
 - Packing group



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Те	xts of the legislative phrases mentioned in section 2:
H2	26: Flammable liquid and vapour.
H3	32: Harmful if inhaled.
	17: May cause an allergic skin reaction.
	35: May cause respiratory irritation.
	36: May cause drowsiness or dizziness.
	12: Harmful to aquatic life with long lasting effects.
	xts of the legislative phrases mentioned in section 3:
	e phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the lividual components which appear in section 3
CL	P Regulation (EC) No 1272/2008:
Ac	ute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.
Aq	uatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
As	p. Tox. 1: H304 - May be fatal if swallowed and enters airways.
	e Irrit. 2: H319 - Causes serious eye irritation.
	m. Liq. 3: H226 - Flammable liquid and vapour.
-	in Irrit. 2: H315 - Causes skin irritation.
	in Sens. 1: H317 - May cause an allergic skin reaction.
	OT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.
	OT SE 3: H335 - May cause respiratory irritation.
	OT SE 3: H336 - May cause drowsiness or dizziness.
	assification procedure:
	m. Liq. 3: Calculation method (2.6.4.3)
	ute Tox. 4: Calculation method
-	n Sens. 1: Calculation method
	OT SE 3: Calculation method
	OT SE 3: Calculation method uatic Chronic 3: Calculation method
	vice related to training:
inte	ining is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension a erpretation of this safety data sheet, as well as the label on the product.
	incipal bibliographical sources:
	p://echa.europa.eu
	p://eur-lex.europa.eu
	breviations and acronyms:
	R: European agreement concerning the international carriage of dangerous goods by road
	DG: International maritime dangerous goods code
	A: International Air Transport Association
	AO: International Civil Aviation Organisation
	D: Chemical Oxygen Demand
	D5: 5day biochemical oxygen demand
	F: Bioconcentration factor 50: Lethal Dose 50
	50: Lethal Concentration 50
-	50: Effective concentration 50
	pPOW: Octanolwater partition coefficient
	c: Partition coefficient of organic carbon
	I: unique formula identifier
	RC: International Agency for Research on Cancer

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.

- END OF SAFETY DATA SHEET -