Safety data sheet

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



P5000



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 **Product identifier:** P5000 Other means of identification: UFI: D1U1-00R0-1008-1CCV Relevant identified uses of the substance or mixture and uses advised against: 1.2 Relevant uses: Hardener for coatings. For professional users/industrial user only. Uses advised against: All uses not specified in this section or in section 7.3 1.3 Details of the supplier of the safety data sheet: Roberlo S.A.U. Ctra. Nacional II, Km. 706,5 17457 Riudellots de la Selva - Gerona - España Phone: +34 972 478060 (8:00-12:45 / 14:15-17:30 h) ROBERLO (España) (GMT +1:00) - Fax: +34972477394 msds@roberlo.com 1.4 Emergency telephone number: +44 (0)1924 431679 / 112 / +34 972 478060 (8:00-12:45 / 14:15-17:30 h) ROBERLO (Spain) (GMT + 1:00)

SECTION 2: HAZARDS IDENTIFICATION **

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 4: Acute inhalation toxicity, Category 4, H332 Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317 STOT RE 2: Specific target organ toxicity — Repeated exposure, Hazard Category 2, H373 STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Warning



Hazard statements:

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

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

- P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370+P378: In case of fire: Use ABC powder extinguisher to extinguish.

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

Supplementary information:

** Changes with regards to the previous version

P5000



SECTION 2: HAZARDS IDENTIFICATION ** (continued)

EUH204: Contains isocyanates. May produce an allergic reaction.

Substances that contribute to the classification

 $\label{eq:hexamethylene} Hexamethylene \ diisocyanate, \ oligomers \ (<0.1 \ \% \ O=C=N-R-N=C=O); \ Reaction \ mass \ of \ ethylbenzene \ and \ xylene; \ N-butyl \ acetate; \ Hydrocarbons, \ C9, \ aromatics$

UFI: DJU1-00R0-J008-1CCV

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: polyisocyanate

Components:

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

	Identification		Chemical name/Classification		Concentration		
CAS:	28182-81-2	Hexamethylene diiso	Hexamethylene diisocyanate, oligomers (<0.1 % 0=C=N-R-N=C=0) ⁽¹⁾ Self-classified				
EC: 931-274-8 Index: Non-applicable REACH: 01-2119485796-17- XXXX Regula		Regulation 1272/2008	Acute Tox. 4: H332; Skin Sens. 1: H317; STOT SE 3: H335 - Warning	(1)	25 - <50 %		
	Non-applicable	Reaction mass of eth	ylbenzene and xylene ⁽¹⁾	Self-classified			
Index: Non-a	905-588-0 Non-applicable 01-2119488216-32- XXXX	Regulation 1272/2008	Acute Tox. 4: H312+H332; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger	(1) (1) (1)	25 - <50 %		
	123-86-4	N-butyl acetate ⁽¹⁾		ATP CLP00			
EC: 204-658-1 Index: 607-025-00-1 REACH: 01-2119485493-2 XXXX	607-025-00-1 01-2119485493-29-	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	(1) (8)	25 - <50 %		
CAS: 128601-23-0		Hydrocarbons, C9, a	romatics ⁽¹⁾	Self-classified			
Index: Nor REACH: 01-	918-668-5 Non-applicable 01-2119455851-35- XXXX	Regulation 1272/2008	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H335; STOT SE 3: H336; EUH066 - Danger	(1) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	1 - <2,5 %		

⁽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.

** Changes with regards to the previous version

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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

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.





SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed: Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

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:

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:

See section 8.

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.





SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

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

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

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

C.- Technical recommendations on general occupational hygiene

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

D.- Technical recommendations to prevent environmental risks

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

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage Minimum Temp.: 5 °C Maximum Temp.: 30 °C

B.- General conditions for storage

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

7.3 Specific end use(s):

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

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

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	Occu	Occupational exposure limits			
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
Hexamethylene diisocyanate, oligomers (<0.1 % O=C=N-R-N=C=O)	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
Reaction mass of ethylbenzene and xylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: Non-applicable	Dermal	Non-applicable	Non-applicable	212 mg/kg	Non-applicable
EC: 905-588-0	Inhalation	442 mg/m ³	442 mg/m ³	221 mg/m ³	221 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





SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short e	xposure	Long ex	kposure
Identification		Systemic	Local	Systemic	Local
Hydrocarbons, C9, aromatics	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 128601-23-0	Dermal	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
EC: 918-668-5	Inhalation	Non-applicable	Non-applicable	150 mg/m ³	Non-applicable

DNEL (General population):

		Short e	exposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
Reaction mass of ethylbenzene and xylene	Oral	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
CAS: Non-applicable	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
EC: 905-588-0	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
Hydrocarbons, C9, aromatics	Oral	Non-applicable	Non-applicable	11 mg/kg	Non-applicable
CAS: 128601-23-0	Dermal	Non-applicable	Non-applicable	11 mg/kg	Non-applicable
EC: 918-668-5	Inhalation	Non-applicable	Non-applicable	32 mg/m ³	Non-applicable

PNEC:

Identification				
Hexamethylene diisocyanate, oligomers (<0.1 % O=C=N-R -N=C=O)	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 water)	266701 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	26670 mg/kg
Reaction mass of ethylbenzene and 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: 905-588-0	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 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 water)	0,981 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,098 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

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.				
 Specific protection 	Specific protection for the bands							

Version: 2 (Replaced 1)

C.- Specific protection for the hands

Revised: 03/06/2022





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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION	(continued)	
SECTION 0. EXIOSONE CONTROLS/LENSONAL ENOTECTION	(Continueu)	

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	CAT II	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
Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	Evewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

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

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	62,04 % weight
V.O.C. density at 20 °C:	602,39 kg/m ³ (602,39 g/L)
Average carbon number:	7,22
Average molecular weight:	110,72 g/mol

SEC	SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES					
9.1	1 Information on basic physical and chemical properties:					
	For complete information see the produce	: datasheet.				
	Appearance:					
	Physical state at 20 °C:	Liquid				
	Appearance: Fluid					
	*Not relevant due to the nature of the product, n	t providing information property of its hazards.				







SECT	TION 9: PHYSICAL AND CHEMICAL PROPERTIES	5 (continued)
	Colour:	Colourless
	Odour:	Characteristic
	Odour threshold:	Non-applicable *
	Volatility:	
	Boiling point at atmospheric pressure:	126 - 255 °C
	Vapour pressure at 20 °C:	928 Pa
	Vapour pressure at 50 °C:	4831,41 Pa (4,83 kPa)
	Evaporation rate at 20 °C:	Non-applicable *
	Product description:	
	Density at 20 °C:	971 kg/m³
	Relative density at 20 °C:	Non-applicable *
	Dynamic viscosity at 20 °C:	26 cP
	Kinematic viscosity at 20 °C:	3138,49 mm²/s
	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:	Immiscible
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Flammability:	
	Flash Point:	26 °C
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	421 °C
	Lower flammability limit:	1 % Volume
	Upper flammability limit:	7,6 % Volume
	Particle characteristics:	
• •	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard class	
	Explosive properties:	Non-applicable *
	Oxidising properties: Corrosive to metals:	Non-applicable * Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable	Non-applicable *
	components:	
	Other safety characteristics:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing infor	mation property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:





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.

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 (CO₂), 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.
 - 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:

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

** Changes with regards to the previous version

SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

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:

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.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	A	Acute toxicity		
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	
Hydrocarbons, C9, aromatics	LD50 oral	>2000 mg/kg		
CAS: 128601-23-0	LD50 dermal	>2000 mg/kg		
EC: 918-668-5	LC50 inhalation	>20 mg/L		
Hexamethylene diisocyanate, oligomers (<0.1 % O=C=N-R-N=C=O)	LD50 oral	2660 mg/kg	Rat	
CAS: 28182-81-2	LD50 dermal	>2000 mg/kg		
EC: 931-274-8	LC50 inhalation	11 mg/L (ATEi)		
Reaction mass of ethylbenzene and xylene	LD50 oral	2100 mg/kg	Rat	
CAS: Non-applicable	LD50 dermal	1100 mg/kg	Rat	
EC: 905-588-0	LC50 inhalation	11 mg/L (4 h)	Rat	

11.2 Information on other hazards:

Endocrine disrupting properties

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

Other information

Non-applicable

** Changes with regards to the previous version

** Changes with regards to the previous version





SECTION 12: ECOLOGICAL INFORMATION **

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

12.1 Toxicity:

Acute toxicity:

Identification		Concentration	Species	Genus
Hexamethylene diisocyanate, oligomers (<0.1 % O=C=N-R-N=C=O)	LC50	Non-applicable		
CAS: 28182-81-2	EC50	Non-applicable		
EC: 931-274-8	EC50	1000 mg/L (72 h)	Scenedesmus subspicatus	Algae
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
Hydrocarbons, C9, aromatics	LC50	>1 - 10 (96 h)		Fish
CAS: 128601-23-0	EC50	>1 - 10 (48 h)		Crustacean
EC: 918-668-5	EC50	>1 - 10 (72 h)		Algae

Chronic toxicity:

Identification		Concentration	Species	Genus
Reaction mass of ethylbenzene and xylene	NOEC	1,3 mg/L	Oncorhynchus mykiss	Fish
CAS: Non-applicable EC: 905-588-0	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

12.2 Persistence and degradability:

Identification	Degradability		Biodegradab	ility
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 %

12.3 Bioaccumulative potential:

Identification	Bio	Bioaccumulation potential		
Reaction mass of ethylbenzene and xylene	BCF	9		
CAS: Non-applicable	Pow Log	2.77		
EC: 905-588-0	Potential	Low		
N-butyl acetate	BCF	4		
CAS: 123-86-4	Pow Log	1.78		
EC: 204-658-1	Potential	Low		

** Changes with regards to the previous version



	Identification	Absorp	Absorption/desorption		Volatility	
	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	
12.5	Results of PBT and vPvB assessment:					
	Product fails to meet PBT/vPvB criteria					
L2.6	Product fails to meet PBT/vPvB criteria Endocrine disrupting properties:					
12.6		ct fails to meet the crit	teria.			
12.6 12.7	Endocrine disrupting properties:	ct fails to meet the cri	teria.			

** Changes with regards to the previous version

ECOLOCICAL INFORMATION

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):

HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. 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

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:



P5000



SECTION 14: TRANSPORT INFORMATION (continued) 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 Physico-Chemical properties: see section 9 Limited quantities: 51 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 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 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 Non-applicable Segregation group: 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 see section 9 Physico-Chemical properties: 14.7 Maritime transport in bulk Non-applicable according to IMO instruments:

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
 Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable
 Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable
 Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable
 Article 95, REGULATION (EU) No 528/2012: Non-applicable
 REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable



SECTION 15: REGULATORY INFORMATION (continued)

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000

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

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.

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

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

· New declared substances

Hexamethylene diisocyanate, oligomers (<0.1 % O=C=N-R-N=C=O) (28182-81-2)

Removed substances

Hexamethylene diisocyanate, oligomers (28182-81-2)

Substances that contribute to the classification (SECTION 2):

New declared substances

Hexamethylene diisocyanate, oligomers (<0.1 % O=C=N-R-N=C=O) (28182-81-2)

Removed substances

Hexamethylene diisocyanate, oligomers (28182-81-2)

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

- · Hazard statements
- · Precautionary statements

Texts of the legislative phrases mentioned in section 2:

H336: May cause drowsiness or dizziness.

H335: May cause respiratory irritation.

H317: May cause an allergic skin reaction.

H315: Causes skin irritation.

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

H332: Harmful if inhaled.

H226: Flammable liquid and vapour.

H319: Causes serious eye irritation.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:





SECTION 16: OTHER INFORMATION ** (continued) Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled. Acute Tox. 4: H332 - Harmful if inhaled. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. Eye Irrit. 2: H319 - Causes serious eye irritation. Flam. Lig. 3: H226 - Flammable liquid and vapour. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure. STOT SE 3: H335 - May cause respiratory irritation. STOT SE 3: H336 - May cause drowsiness or dizziness. **Classification procedure:** STOT SE 3: Calculation method STOT SE 3: Calculation method Skin Sens. 1: Calculation method Skin Irrit. 2: Calculation method STOT RE 2: Calculation method Acute Tox. 4: Calculation method Flam. Liq. 3: Calculation method (2.6.4.3) Eye Irrit. 2: Calculation method Advice related to training: Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product. Principal bibliographical sources: http://echa.europa.eu http://eur-lex.europa.eu Abbreviations and acronyms: ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon UFI: unique formula identifier IARC: International Agency for Research on Cancer

** Changes with regards to the previous version

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