

Code: 5004-001062



**Version: 2 Revision: 27/03/2023** Previous revision: 04/11/2022 Date of printing: 27/03/2023

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

# 1.1 PRODUCT IDENTIFIER:

HE ULTRA TEX 2K HARDENER

Code: 5004-001062 (CAS: 28182-81-2 EC: 931-274-8) UFI: 61XE-KHJF-SC0W-DNQG

REACH REGISTER:
Register name:

HDI oligomers, isocyanurate

Register number: 01-2119485796-17

### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Intended uses (main technical functions): [X] Industrial [X] Professional [] Consumers

Catalyst.

Sectors of use (use as such or as a ingredient in mixtures):

Industrial manufacturing (SU3). Industrial.

Manufacture of bulk, large scale chemicals (SU8). Industrial.

Formulation (mixing) of preparations and/or re-packaging (SU10). Industrial, Professional.

Manufacture of plastic products (SU12). Industrial, Professional.

Manufacture of other non-metallic mineral products (SU13). Industrial, Professional.

Building and construction work (SU19). Industrial, Professional, Consumers.

Professional uses (SU22). Professional.

Use in manufacture, formulation or application processes (relevant uses):

Industrial use, Industrial.

Professional use, Professional.

Manufacture of the substance, Industrial.

Use as an intermediate, Industrial.

Formulation, Industrial, Professional.

Types of PCN use:

Chemical products: uncategorised.

Uses advised against:

For professional or industrial use only. Not reccomended for use in any consumer products. This product is not recommended for any use or sector of use (industrial, professional or consumer) other than those previously listed as 'Intended or identified uses'. Not suitable for DIY use. If your use is not covered, please contact the supplier of this Safety Data Sheet.

Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:

Not restricted.

# 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

CAR REPAIR SYSTEM S.A.

Pol.Ind. 2 de Octubre, c/ José Muñoz 6 - 18320 Santa Fe - Granada ESPAÑA

Phone number: (+34) 95 8431792 - www.carrepairsystem.eu

E-mail address of the person responsible for the Safety Data Sheet:

info@carrepairsystem.eu

# 1.4 EMERGENCY TELEPHONE NUMBER:

(+34) 95 8431792 L-J 8:30-14 / 15-18 h. V 8:30-14:30 h.

# SECTION 2 : HAZARDS IDENTIFICATION

# 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

Classification in accordance with Regulation (EU) No. 1272/2008~2021/849 (CLP):

DANGER:Flam. Liq. 3:H226|Skin Irrit. 2:H315|Eye Irrit. 2:H319|Skin Sens. 1:H317|STOT SE (irrit.) 3:H335|STOT SE (narcosis) 3:H336|STOT RE 2:H373|Asp. Tox. 1:H304|EUH014|EUH066

Danger class		Classification of the substance	Cat.	Routes of exposure	Target organs	Effects
Physicochemical:		Flam. Liq. 3:H226 EUH014:EUH014	Cat.3 -	- -	-	-
Human health:    ∢	* \	Eye Irrit. 2:H319 Skin Sens. 1:H317 STOT SE (irrit.) 3:H335 STOT SE (narcosis) 3:H336 STOT RE 2:H373	Cat.3 Cat.3 Cat.2	Eyes Skin Inhalation Inhalation Inhalation Ingestion+Aspiration	Eyes Skin Respiratory tract CNS Systemic Lungs	Irritation Irritation Allergy Irritation Narcosis Damage Dead Dryness, Cracking
Environment: Not classified						

Full text of hazard statements mentioned is indicated in section 16.

# 2.2 LABEL ELEMENTS:



This product is labelled with the signal word DANGER in accordance with Regulation (EU) No. 1272/2008~2021/849 (CLP)



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H226 Flammable liquid and vapour.

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

H304 May be fatal if swallowed and enters airways.

Causes serious eye irritation. H319 H335 May cause respiratory irritation.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness. H317 May cause an allergic skin reaction. EUH014 Reacts violently with water.

- Precautionary statements:

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

If eye irritation persists: Get medical advice/attention. P337+P313

P280 Wear protective gloves, clothing and eye protection. In case of inadequate ventilation wear respiratory protection.

P363 Wash contaminated clothing before reuse.

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. P301+P310-P330+

P331

P303+P361+P353-

P352-P312 plenty of water and soap.. Call a POISON CENTER or doctor if you feel unwell.

P304+P340-P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash with

vou feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. P305+P351+P338-

Continue rinsing. Immediately call a POISON CENTER or doctor. P310 P501 Dispose of contents/container in accordance with local regulations.

Supplementary statements:

Substances that contribute to classification:

HDI oligomers, isocyanurate (EC No. 931-274-8)

n-butyl acetate (EC No. 204-658-1)

Reaction mass of ethylbenzene and xilene (EC No. 905-588-0)

2-methoxy-1-methylethyl acetate (EC No. 203-603-9)

Other sensitizing components:

Tosil-isocyanate

#### **OTHER HAZARDS:** 2.3

Hazards which do not result in classification but which may contribute to the overall hazards of the substance:

- Other physicochemical hazards:

Vapours may form with air a mixture potentially flammable or explosive.

- Other adverse human health effects:

People with hypersensitive respiratory tract (by instance, asthma or chronical bronchitis) should not handle this product.

Other negative environmental effects:

Do not fulfil the PBT/vPvB criteria.

Endocrine disrupting properties:

This product does not contain substances with endocrine disrupting properties identified or under evaluation.



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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### SUBSTANCES: 3.1

This product is a substance.

Chemical description:

Hexamethylene diisocyanate, oligomers

### **INGREDIENTS:**

30 < C < 40 %

20 < C < 25 %

HDI oligomers, isocyanurate

Autoclassified

CAS: 28182-81-2, EC: 931-274-8, REACH: 01-2119485796-17 CLP: Warning: Acute Tox. (inh.) 4:H332 | Skin Sens. 1:H317 | STOT SE (irrit.) REACH

3·H335

n-butyl acetate CAS: 123-86-4, EC: 204-658-1, REACH: 01-2119485493-29 REACH / ATP01

CLP: Warning: Flam. Liq. 3:H226 | STOT SE (narcosis) 3:H336 | EUH066

20 < C < 25 %

Reaction mass of ethylbenzene and xilene CAS: , EC: 905-588-0, REACH: 01-2119488216-32 Autoclassified **RFACH** 

CLP: Danger: Flam. Liq. 3:H226 | Acute Tox. (inh.) 4:H332 | Acute Tox. (skin) 4:H312 | Skin Irrit. 2:H315 | Eye Irrit. 2:H319 | STÓT SE (irrit.) 3:H335 | STÓT

RE 2:H373 | Asp. Tox. 1:H304 10 < C < 15 %

2-methoxy-1-methylethyl acetate CAS: 108-65-6, EC: 203-603-9, REACH: 01-2119475791-29 CLP: Warning: Flam. Liq. 3:H226 | STOT SE (narcosis) 3:H336 REACH

0.1 < C < 0.2 %

Tosil-isocvanate

REACH / CLP00

REACH / ATP09

Skin Irrit. 2, H315: . C ≥5 % Eye Irrit. 2, H319:

CAS: 4083-64-1, EC: 223-810-8, REACH: 01-2119980050-47 CLP: Danger: Skin Irrit. 2:H315 | Eye Irrit. 2:H319 | Resp. Sens. 1:H334 | STOT SE (irrit.) 3:H335 | EUH014

C ≥5 % STOT SE (irrit.) 3, H335: C ≥5 %

C < 0,0005 %



Chlorobenzene

CAS: 108-90-7, EC: 203-628-5, REACH: 01-2119432722-45

CLP: Warning: Flam. Liq. 3:H226 | Acute Tox. (inh.) 4:H332 | Skin Irrit.

2:H315 | Aquatic Chronic 2:H411

### Impurities:

Does not contain other components or impurities which will influence the classification of the product.

### Stabilizers:

None

# Reference to other sections:

For more information on hazardous ingredients, see sections 8, 11, 12 and 16.

# SUBSTANCES OF VERY HIGH CONCERN (SVHC):

List updated by ECHA on 17/01/2023.

Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:

None

Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:

Persistent, bioaccumulable and toxic PBT, or very persistent and very bioaccumulable vPvB substances:

Do not fulfil the PBT/vPvB criteria.

#### MIXTURES: 3.2

Not applicable (substance).

# SECTION 4: FIRST AID MEASURES

#### **DESCRIPTION OF FIRST AID MEASURES:** 4.1



In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Wear protective gloves when administering first aid.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
Inhalation:	Inhalation may cause acute irritation and/or sensitization of the respiratory system, resulting in asthmatic symptoms, wheezing and a tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to airborne concentrations well below the occupational exposure limit. Inhalation may result in pulmonary oedema. Symptoms of pulmonary oedema may not often be apparent until after several hours and become worse after physical effort.	



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Skin: Skin contact causes redness Prolonged contact may Remove immediately contaminated clothing. Throw

Skin:	<b></b>		Remove immediately contaminated clothing. Throw away clothing should it be highly contaminated. Wash thoroughly the affected area with plenty of cold or lukewarm water and remove or neutralize the substance with polyethylenglycol 300 or vegetable oil. Do not use solvents or thinners. Supply medical attention.
Eyes		blurred vision.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Call a physician immediately.
Inges		throat and oesophagus.	Call a physician. Do not induce vomiting, unless directed to do so by medical personnel. Should vomiting occur spontaneously, keep free respiratory tract. Keep the patient at rest.

# 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

The main symptoms and effects are indicated in sections 4.1 and 11.1

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Notes to physician:

Treatment should be directed at the control of symptoms and the clinical condition of the patient.

Antidotes and contraindications:

In the case of a pneumonia by chemical agents, must be considered a therapy with antibiotics and corticosteroids.

#### SECTION 5: FIREFIGHTING MEASURES

# 5.1 EXTINGUISHING MEDIA:)

Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist. The use of alcohol resistant foams (ATC-type) are preferred. You can also use the general purpose synthetic foams (including AFFF) or common protein foams, but they will be less effective. Do not use for extinguishing: direct water jet.

# 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

As consequence of combustion or thermal decomposition, hazardous products may be produced.

# 5.3 ADVICE FOR FIREFIGHTERS:

### Special protective equipment:

It is necessary wear respiratory protection with independent air supply. If the fire-proof protective equipment is not available or is not being used, combat fire from a sheltered position or from a safe distance.

# Other recommendations:

Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not direct a constant jet of water or foam at burning sources of heat, as this could produce foam and increase the intensity of the fire. Do not allow fire-fighting residue to enter drains, sewers or water courses.



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### SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Restrict the access to the area of the spill. Eliminate possible sources of ignition and when appropriate, ventilate the area. Avoid direct contact with this product. Avoid contact with skin and eyes. The floor may become slippery.

6.2 <u>ENVIRONMENTAL PRECAUTIONS:</u>

Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc..). The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises: water, ethanol or isopropanol and concentrated ammonia solution (d=0,880) = 45/50/5 parts by volume. Another possible (non-flammable) decontaminant is made up of water and sodium carbonate = 95/5 parts by weight. Add the same decontaminant to any residues and allow to stand for several days in an un-sealed container until no further reaction occurs. Keep the remains in a closed container.

6.4 REFERENCE TO OTHER SECTIONS:

For contact information in case of emergency, see section 1.

For information on safe handling, see section 7.

For exposure controls and personal protection measures, see section 8.

For waste disposal, follow the recommendations in section 13.

### SECTION 7: HANDLING AND STORAGE

# 7.1 PRECAUTIONS FOR SAFE HANDLING:

Comply with the existing legislation on health and safety at work.

- General recommendations:

Usual protection measures for handling chemicals must be adopted. Use in areas free from sources of ignition and away from heat or electrical sources. Do not smoke. Avoid any type of leakage or escape. Keep the container tightly closed.

- Recommendations for the prevention of fire and explosion risks:

Vapours are heavier than air, may spread along floors to a considerable distance, can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Switch mobile phones off and do not smoke. No tools with a potential for sparks should be used.

Flashpoint 26 °C CLP 2.6.4.3.

Autoignition temperature: 400 °C

- Recommendations for the prevention of toxicological risks:

People with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which isocyanate containing products are used. Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.

- Recommendations for the prevention of environmental contamination:

It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.

# 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Forbid the entry to unauthorized persons. Keep away from food, drink and animal foodstuffs. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. Avoid extreme humidity conditions. Precautions should be taken to minimise exposure to atmospheric humidity or water, as carbon dioxide may be formed which, in closed containers can result in pressurisation. Care should be taken when re-opening partly used containers. Due to the sensitivity to humidity of the isocyanates, this product should be kept in the original container, or under pressure of dried nitrogen, for example. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.

- Class of store:

According to current legislation.

- Maximum storage period:

Not available.

- Temperature interval:

min:5 °C, max:30 °C (recommended).

- Incompatible materials:

Keep away from water, alkalis, amines, alcohols. Clean the application equipment with a compatible solvent.

- Type of packaging:

According to current legislation.

- Limit quantity (Seveso III): Directive 2012/18/EU:



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- Named dangerous substances/mixtures:None
- Hazard categories and lower-/upperthreshold quantities in tonnes (t):
- · Physical hazards:Flammable liquid and vapour. (P5c) (5000t/50000t).
- Health hazards:Not applicable
- · Environmental hazards:Not applicable
- · Other hazards:Reacts violently with water. (O1) (100t/500t).
- Threshold quantity for the application of lower-tier requirements:100 tons
- Threshold quantity for the application of upper-tier requirements:500 tons

#### Remarks:

The qualifying quantities set out above relate to each establishment. The quantities to be considered for the application of the relevant Articles are the maximum quantities which are present or are likely to be present at any one time. Dangerous substances present at an establishment only in quantities equal to or less than 2 % of the relevant qualifying quantity shall be ignored for the purposes of calculating the total quantity present, if their location within an establishment is such that it cannot act as an initiator of a major accident elsewhere at that establishment. For more details, see note 4 of Annex I of the Seveso Directive.

# 7.3 SPECIFIC END USE(S):

For the use of this product particular recommendations apart from that already indicated are not available.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 CONTROL PARAMETERS

If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assessing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

### - OCCUPATIONAL EXPOSURE LIMIT VALUES (WEL)

EH40/2005 WELs (United	Year	WEL-TWA		WEL-STEL		Remarks
Kingdom) 2018		ppm	mg/m3	ppm	mg/m3	
n-butyl acetate	2015	50	237	150	713	
2-methoxy-1-methylethyl acetate	-	50	275	100	550	Sk, Recommended
Chlorobenzene	1995	10	46	-	-	BMGV, A3
Reaction mass of ethylbenzene and	1996	100	434	150	651	BMGV
xilene						

WEL - Workplace Exposure Limit, TWA - Time Weighted Average (8 hours), STEL - Short Term Exposure Limit (15 min).

BMGV - Biological monitoring guidance value. BMGVs are non-statutory and any biological monitoring undertaken in association with a guidance value needs to be conducted on a voluntary basis (ie with the fully informed consent of all concerned).

Sk - Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

A3 - Carcinogenic in animals.

### - Dermal (Sk):

Means that, in exposures to this substance, the contribution by the cutaneous route, including the mucous membranes and eyes, may result significant for the overall body content if no measures are taken to prevent absorption. There are some chemicals for which dermal absorption, both in liquid and vapour phases, can be very high, and this route of entry may be or equal or greater importance even that inhalation pathway. In these situations, the use of a biological control is essential in order to quantify the overall amount of contaminant absorbed.

# - BIOLOGICAL LIMIT VALUES:

Biological monitoring can be a very useful complementary technique to air monitoring when air sampling techniques alone may not give a reliable indication of exposure. Biological monitoring is the measurement and assessment of hazardous substances or their metabolites in tissues, secretions, excreta or expired air, or any combination of these, in exposed workers. Measurements reflect absorption of a substance by all routes. Biological monitoring may be particularly useful in circumstances where there is likely to be significant skin absorption and/or gastrointestinal tract uptake following ingestion, where control of exposure depends on respiratory protective equipment, where there is a reasonably well-defined relationship between biological monitoring and effect, or where it gives information on accumulated dose and target organ body burden which is related to toxicity.

Substances that have established a biological limit value:

# - DERIVED NO-EFFECT LEVEL (DNEL):

Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

- DERIVED NO-EFFECT LEVEL, WORKERS:- Systemic effects, acute and chronic:	DNEL Inhalation mg/m3		DNEL Cutaneous mg/kg bw/d	<u>S</u>	DNEL Oral mg/kg bw/d	
Reaction mass of ethylbenzene and xilene	289 (a)	77 (c)	s/r (a)	180 (c)	- (a)	- (c)
HDI oligomers, isocyanurate	s/r (a)	s/r (c)	s/r <b>(a)</b>	s/r (c	- (a)	- (c)
Tosil-isocyanate	s/r (a)	3,24 (c)	s/r <b>(a)</b>	0,92 (c)	- (a)	- (c)
Chlorobenzene	70 (a)	23 (c)	15 <b>(a)</b>	5 (c)	- (a)	- (c)
n-butyl acetate	960 (a)	480 (c)	11 (a)	11 (c	- (a)	- (c)
2-methoxy-1-methylethyl acetate	- (a)	275 (c)	- (a)	153,5 (c)	- (a)	- (c)



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- DERIVED NO-EFFECT LEVEL, WORKERS:- Local effects, acute and chronic:	DNEL Inhalation mg/m3		DNEL Cutaneous mg/cm2		DNEL Eyes mg/cm2	
Reaction mass of ethylbenzene and xilene	289 (a)	s/r (c)	s/r <b>(a)</b>	s/r (c)	- (a)	- (c)
HDI oligomers, isocyanurate	1 (a)	0,5 (c)	a/r <b>(a)</b>	a/r (c)	s/r (a)	- (c)
Tosil-isocyanate	m/r (a)	a/r (c)	m/r <b>(a)</b>	s/r (c)	m/r (a)	- (c)
Chlorobenzene	94 (a)	42,3 (c)	- (a)	b/r (c)	b/r <b>(a)</b>	- (c)
n-butyl acetate	960 (a)	480 (c)	s/r <b>(a)</b>	s/r (c)	s/r (a)	- (c)
2-methoxy-1-methylethyl acetate	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)

# - Derived no-effect level, general population:

Not applicable (product for professional or industrial use).

- (a) Acute, short-term exposure, (c) Chronic, long-term or repeated exposure.
- (-) DNEL not available (without data of registration REACH).
- s/r DNEL not derived (not identified hazard).
- b/r DNEL not derived (low hazard).
- m/r DNEL not derived (medium hazard).
- a/r DNEL not derived (high hazard).

# - PREDICTED NO-EFFECT CONCENTRATION (PNEC):

- PREDICTED NO-EFFECT CONCENTRATION,	PNEC Fresh water	PNEC Marine	PNEC Intermittent
AQUATIC ORGANISMS:- Fresh water, marine	mg/l	mg/l	mg/l
water and intermittent release:			
Reaction mass of ethylbenzene and xilene	0.327	0.327	0.327
HDI oligomers, isocyanurate	0.127	0.0127	1.27
Tosil-isocyanate	0.03	0.003	0.3
Chlorobenzene	0.032	0.0032	0.066
n-butyl acetate	0.18	0.018	0.36
2-methoxy-1-methylethyl acetate	0.635	0.0635	6.35
- WASTEWATER TREATMENT PLANTS (STP)	PNEC STP	PNEC Sediments	PNEC Sediments
AND SEDIMENTS IN FRESH-AND MARINE WATER:	mg/l	mg/kg dw/d	mg/kg dw/d
Reaction mass of ethylbenzene and xilene	6.58	12.46	12.46
HDI oligomers, isocyanurate	38.3	266700	26670
Tosil-isocyanate	0.4	0.172	0.0172
Chlorobenzene	1.4	0.922	0.0922
n-butyl acetate	35.6	0.981	0.0981
2-methoxy-1-methylethyl acetate	100	3.29	0.329
- PREDICTED NO-EFFECT CONCENTRATION,	PNEC Air	PNEC Soil	PNEC Oral
TERRESTRIAL ORGANISMS:- Air, soil and	mg/m3	mg/kg dw/d	mg/kg dw/d
effects for predators and humans:			
Reaction mass of ethylbenzene and xilene	-	2.31	-
HDI oligomers, isocyanurate	s/r	53182	n/b
Tosil-isocyanate	s/r	0.0168	n/b
Chlorobenzene	s/r	0.166	10
n-butyl acetate	s/r	0.0903	n/b
2-methoxy-1-methylethyl acetate	-	0.29	-

(-) - PNEC not available (without data of registration REACH).

n/b - PNEC not derived (not bioaccumulative potential).

s/r - PNEC not derived (not identified hazard).

# 8.2 EXPOSURE CONTROLS:

# ENGINEERING MEASURES











Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

# - Protection of respiratory system:

Avoid the inhalation of product.

### - Protection of eyes and face:

It is recommended to install water taps, sources or eyewash bottles with clean water close to the working area.

### - Protection of hands and skin:

It is recommended to install water taps or sources with clean water close to the working area.Barrier creams may help to protect the exposed areas of the skin.Barrier creams should not be applied once exposure has occurred.

# OCCUPATIONAL EXPOSURE CONTROLS: REGULATION (EU) NO. 2016/425:

As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc..), you should consult the informative brochures provided by the manufacturers of PPE.



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Mask:	Suitable respiratory protection at low concentrations or short-term incidence: In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers. For short periods of work, you can consider the utilisation of a combination mask with gas and particle filters, type A2-P2 (EN14387/EN143). In presence of high concentrations of vapour, use independent breathing apparatus.
Safety goggles:	Safety goggles for chemicals, with suitable lateral protection (EN166).  ✓
Face shield:	No.
Gloves:	Butyl rubber gloves, thick >0.5 mm (EN374). Fluorocarbon rubber gloves, thick >0.4 mm (EN374).  Recommended minimal level 6, breakthrough time >480 min (protection for permanent contact). When short contact with the product is expected, use gloves with a protection level 3 or higher should be used, with a breakthrough time >60 min. The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. For the selection of a specific type of gloves for specific applications, with certain duration, it should take into account relevant factors to the workplace (without limitation to them), such as: Due to the wide variety of circumstances and possibilities, the instructions/specifications provided by the glove supplier should be taken into account. Use the proper technique of removing gloves (without touching glove's outer surface) to avoid contact of the product with the skin. The gloves should be immediately replaced when any sign of degradation is noted.
Boots:	No.
Apron:	Advisable. ✓
Clothing:  Thermal hazards:	Suitable work clothes which avoid contact with the product should be worn. Do not use contaminated clothing or shoes. Wash contaminated work clothes before wearing them again.

# - Thermal hazards:

Not applicable (the product is handled at room temperature).

# **ENVIRONMENTAL EXPOSURE CONTROLS:**

Avoid any spillage in the environment. Avoid any release into the atmosphere.

# - Spills on the soil:

Prevent contamination of soil.

# - Spills in water:

Do not allow to escape into drains, sewers or water courses.

# -Water Management Act:

This product does not contain any substance included in the list of priority substances in the field of water policy under Directive 2000/60/EC~2013/39/EU.

# - Emissions to the atmosphere:

Because of volatility, emissions to the atmosphere while handling and use may result. Avoid any release into the atmosphere.



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# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

**Appearance** 

Physical state: Liquid Colour: Colourless Odour: Characteristic Odour threshold: 0,68 ppm

Change of state

-46,00 °C Melting point:

Initial boiling point: 137 °C at 760 mmHg

- Flammability:

Flashpoint 26 °C CLP 2.6.4.3.

Lower/upper flammability or explosive limits: Not available - Not available

Autoignition temperature: 400 °C

Stability

Decomposition temperature: Not available (lack of data).

pH-value

pH: Not available.

Viscosity:

Dynamic viscosity: 0,8 cps at 20°C Kinematic viscosity: 0,27 mm2/s at 40°C Viscosity (flow time): 22 ± 28 sec.CF2 at 20°C

- Solubility(ies):

Solubility in water Inmiscible

Liposolubility: Not applicable (inorganic substance).

Partition coefficient: n-octanol/water: 0,56 (as log Pow)

Volatility:

Vapour pressure: 4,5187 kPa at 50°C

Evaporation rate: 66,23 nBuAc=100 25°C Relative

**Density** 

Relative density: 0,991 at 20/4°C Relative water 3,91 at 20°C 1 atm. Relative air Relative vapour density:

Particle characteristics

Particle size: Not applicable.

Explosive properties:

In the molecule there is no chemical groups associated with explosive properties.

- Oxidizing properties:

Not classified as oxidizing product.

#### OTHER INFORMATION: 9.2

Information regarding physical hazard classes

Flammable liquids: Combustibility: Combustible.

Other security features:

Molecular weight (numeric): 112,56 g/mol Surface tension: 33,3 din/cm at 20°C Heat of combustion: 6520 Kcal/kg VOC (supply): -9,999,0 % Weight VOC (supply): -99,045,0 g/l Isocyanates: Not available.

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the corresponding technical data sheet. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.



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Version	: 2 Revision: 27/03/2023	Previous revision: 04/11/2022	Date of printing: 27/03/2023
SECTION	10: STABILITY AND REACTIVITY		
10.1	REACTIVITY:		
İ	- Corrosivity to metals:		
İ	It is not corrosive to metals.		
	- Pyrophorical properties:		
	It is not pyrophoric.		
10.2	CHEMICAL STABILITY:		
	Stable under recommended storage and handling condition	ons.	
10.3	POSSIBILITY OF HAZARDOUS REACTIONS:		
	Possible dangerous reaction with water, alkalis, amines, a Reacts with water under evolution of CO2.	alcohols.Reacts violently with water.Exothermic rea	action with amines and alcohols.
10.4	CONDITIONS TO AVOID:		
	- Heat:		
	Precautions must be taken to avoid exceeding the maxim		ive rise to an uncontrolled exo-
	thermic polymerisation taking place, and under extreme c	onditions, even to the container exploding.	
	<u>- Light:</u>		
	If possible, avoid direct contact with sunlight.		
	- Air:		
	The product is not affected by exposure to air, but should	not be left the containers open.	
	- Humidity:		
	Avoid humidity.Not applicable (the product is handled at r	oom temperature).	
	- Pressure:		
	Not relevant.		
	- Shock:		
	The product is not sensitive to shocks, but as a recommendents and breakage of packaging, especially when the product is not sensitive to shocks, but as a recommendent sensitive to shock sensitive	ndation of a general nature should be avoided bur roduct is handled in large quantities, and during lo	ading and download operations.
10.5	INCOMPATIBLE MATERIALS:		
	Keep away from water, alkalis, amines, alcohols.Clean the	e application equipment with a compatible solvent	i.
10.6	HAZARDOUS DECOMPOSITION PRODUCTS:		
	As consequence of thermal decomposition, hazardous pro	oducts may be produced, including isocyanates. N	lo product of decomposition is

# SECTION 11: TOXICOLOGICAL INFORMATION

dangerous if stored and handled properly.

# INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008:

# **ACUTE TOXICITY:**

Dose and lethal concentrations	DL50 (OECD401)	DL50 (OECD402)	CL50 (OECD403)
for individual ingredients:	mg/kg bw Oral	mg/kg bw Cutaneous	mg/m3·4h Inhalation
Reaction mass of ethylbenzene and xilene	4300 Rat	1700 Rabbit	> 22080 Rat
HDI oligomers, isocyanurate	2500 Rat	> 2000 Rat	> 390 Rat
Tosil-isocyanate	2330 Rat	> 2000 Rat	
Chlorobenzene	> 2000 Rat	> 5000 Rabbit	> 13600 Rat
n-butyl acetate	10768 Rat	17600 Rabbit	> 23400 Rat
2-methoxy-1-methylethyl acetate	8532 Rat	> 5000 Rat	> 35700 Rat
Estimates of acute toxicity (ATE)	ATE	ATE	ATE
for individual ingredients:	mg/kg bw Oral	mg/kg bw Cutaneous	mg/m3·4h Inhalation
Reaction mass of ethylbenzene and xilene	-	*1700	11000 Vapours
HDI oligomers, isocyanurate	-	-	11000 Vapours
Chlorobenzene	-	-	13600 Vapours
n-butyl acetate	-	-	23400 Vapours
2-methoxy-1-methylethyl acetate	-	-	35700 Vapours

- (\*) Point estimates of acute toxicity corresponding to the classification category (see GHS/CLP Table 3.1.2). These values are designed to be used in the calculation of the ATE for classification of a mixture based on its components and do not represent test results.
- (-) The components that are assumed to have no acute toxicity at the upper threshold of category 4 for the corresponding exposure route are ignored.

- No observed adverse effect level	NOAEL Oral	NOAEL Cutaneous	NOAEC Inhalation
	mg/kg bw/d	mg/kg bw/d	mg/m3
Chlorobenzene	125 Rat		

### - Lowest observed adverse effect level

Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: ACUTE TOXICITY:

Routes of exposure Acute toxicity Cat. Main effects, acute and/or delayed Criteria
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Inhalation: Not classified	ATE > 20000 mg/m3	-	,	GHS/CLP 3.1.2. OECD 403
Skin: Not classified	ATE > 5000 mg/kg bw	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).	
Eyes: Not classified	Not available.	-	Not classified as a product with acute toxicity by eye contact (lack of data).	GHS/CLP 1.2.5.
Ingestion: Not classified	ATE > 2000 mg/kg bw	Not available.	,	GHS/CLP 3.1.2. OECD 401

# CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
- Respiratory corrosion/irritation:	Respiratory tract	Cat.3	IRRITANT: May cause respiratory irritation.	GHS/CLP 1.2.6. 3.8.2.2.1.
- Skin corrosion/irritation:	Skin	Cat.2	IRRITANT: Causes skin irritation.	GHS/CLP 3.2.2. OECD 404
- Serious eye damage/irritation:	Eyes	Cat.2	IRRITANT: Causes serious eye irritation.	GHS/CLP 3.3.2. OECD 405
- Respiratory sensitisation: Not classified		-	Not classified as a product sensitising by inhalation (lack of data).	GHS/CLP 3.4.2.1.
- Skin sensitisation:	Skin	Cat.1	SENSITISING: May cause an allergic skin reaction.	GHS/CLP 3.4.2.2. OECD 406

# - ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
- Aspiration hazard:	Lungs		,	GHS/CLP 3.10.2.

# SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Effects	SE/RE	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
- Systemic:	RE	Systemic		HARMFUL: May cause damage to organs through prolonged or repeated exposure if inhaled.	GHS/CLP 3.8.3.4
- Respiratory effects:	SE (!)	Respiratory tract	Cat.3	IRRITANT: May cause respiratory irritation.	GHS/CLP 3.8.3.4
- Cutaneous:	RE	Skin	-	DEFATTENING: Repeated exposure may cause skin dryness or cracking.	GHS/CLP 1.2.4.
- Neurological:	SE (!)	CNS		NARCOSIS: May cause drowsiness or dizziness if inhaled.	GHS/CLP 3.8.2.2.2.

# **CMR EFFECTS:**

# - Carcinogenic effects:

It is not considered as a carcinogenic product.

- Genotoxicity:

It is not considered as a mutagenic product.

- Toxicity for reproduction:

Does not harm fertility. Does not harm the unborn child.



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### Effects via lactation:

Not classified as a hazardous product for children breast-fed.

# DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE: Routes of exposure

May be absorbed by inhalation of aerosol, through the skin and by ingestion.

#### Short-term exposure:

Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system Liquid splashes in the eyes may cause irritation and reversible damage. If swallowed, may cause irritation of the throat; other effects may be the same as described in the exposure to vapours. Causes skin irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Very small amounts aspirated by the lungs may cause severe pulmonary damage, including death.

### - Long-term or repeated exposure:

Repeated and prolonged exposure may result in asthmatic symptoms. Repeated or prolonged contact may cause cutaneous complaints.

### **INTERACTIVE EFFECTS:**

Not available.

### INFORMATION ABOUT TOXICOCINETICS, METABOLISM AND DISTRIBUTION:

### - Dermal absorption:

Substances for which dermal absorption can be very high: Reaction mass of ethylbenzene and xilene, 2-methoxy-1-methylethyl acetate.

### - Basic toxicokinetics:

Not available.

### **ADDITIONAL INFORMATION:**

Based on the properties of the isocyanate content of this product and existing technical data of similar preparations,

#### **INFORMATION ON OTHER HAZARDS:** 11.2

# **Endocrine disrupting properties:**

This product does not contain substances with endocrine disrupting properties identified or under evaluation.

Other information:

No additional information available.

### SECTION 12: ECOLOGICAL INFORMATION

12.1	IOXICITY	Ė

- Acute toxicity in aquatic environment	CL50 (OECD 203)		
for individual ingredients	mg/l·96hours	mg/l·48hours	mg/l·72hours
Reaction mass of ethylbenzene and xilene	14 - Fishes	16 - Daphniae	10 - Algae
HDI oligomers, isocyanurate	100 - Fishes	100 - Daphniae	1000 - Algae
Tosil-isocyanate	45 - Fishes	100 - Daphniae	
Chlorobenzene	4.5 - Fishes	26 - Daphniae	11 - Algae
n-butyl acetate	18 - Fishes	44 - Daphniae	675 - Algae
2-methoxy-1-methylethyl acetate	134 - Fishes	408 - Daphniae	1000 - Algae

- No observed effect concentration	NOEC (OECD 210)	NOEC (OECD 211)	NOEC (OECD 201)
Chlorobenzene	4.8 - Fishes	0.72 - Daphniae	-
n-butyl acetate		23 - Daphniae	
2-methoxy-1-methylethyl acetate		100 - Daphniae	

# - Lowest observed effect concentration

Not available

# ASSESSMENT OF AQUATIC TOXICITY:

Aquatic toxicity	Cat.	Main hazards to the aquatic environment	Criteria
<ul> <li>Acute aquatic toxicity:</li> <li>Not classified</li> </ul>		· · · · · · · · · · · · · · · · · · ·	GHS/CLP 4.1.2.
- Chronic aquatic toxicity:		Not classified as a dangerous product with chronic toxicity to aquatic life with long lasting effects (based on available data, the classification criteria are not met).	GHS/CLP 4.1.2.

#### 12.2 PERSISTENCE AND DEGRADABILITY:

# - Biodegradability:

Not readily biodegradable

Not readily biodegradable.			
Aerobic biodegradation	COD	%DBO/DQO	Biodegradabilidad
for individual ingredients	mgO2/g	5 days 14 days 28 days	-
Reaction mass of ethylbenzene and xilene	2620	52 81 88	Easy



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HDI oligomers, isocyanurate		1	Not easy
Tosil-isocyanate			Easy
Chlorobenzene		15	Not easy
n-butyl acetate	2204	80 82 83	Easy
2-methoxy-1-methylethyl acetate	1520	22 78 90	Easy

Note: Biodegradability data correspond to an average of data from various bibliographic sources.

#### Hydrolysis:

Reacts with water forming carbon dioxide and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents.

- Photodegradability:

Not available.

# 12.3 BIOACCUMULATIVE POTENTIAL:

Not bioaccumulable.

Bioaccumulation	logPow	BCF L/kg	Potential
for individual ingredients	0.40		
Reaction mass of ethylbenzene and xilene	3.16	56.5 (calculated)	Low
HDI oligomers, isocyanurate	5.54	3.2 (calculated)	No bioaccumulable
Tosil-isocyanate	2.34	16.3 (calculated)	Unlikely, low
Chlorobenzene	3	40 (calculated)	Low
n-butyl acetate	1.81	6.9 (calculated)	No bioaccumulable
2-methoxy-1-methylethyl acetate	0.56	3.2 (calculated)	No bioaccumulable

12.4 MOBILITY IN SOIL:

Not available

Mobility	log Poc	Constant of Henry	Potential
for individual ingredients		Pa·m3/mol 20°C	
Reaction mass of ethylbenzene and xilene	2,25	660 (calculated)	Low
HDI oligomers, isocyanurate		0 (calculated)	No bioaccumulable
Tosil-isocyanate	2,38		Unlikely, low
Chlorobenzene	2,4	368 (calculated)	Low
n-butyl acetate	1,84	28,5 (calculated)	No bioaccumulable
2-methoxy-1-methylethyl acetate	0,23	0,42 (calculated)	No bioaccumulable

12.5 RESULTS OF PBT AND VPVB ASSESMENT: (Annex XIII of Regulation (EC) no. 1907/2006:)

Do not fulfil the PBT/vPvB criteria: Half-life in the marine environment < 60 days, Half-life in fresh-water or estuarine < 40 days, Half-life in marine sediments < 180 days, Half-life in sediments of fresh-water or estuarine < 120 days, Half-life in the soil < 120 days, Bioconcentration factor BCF < 2000, Long term 'No observed effect concentration' for fresh-water or marine organisms NOEC > 0.01 mg/l, It is NOT classified as CMR, It has NO endocrine disrupting potential.

12.6 ENDOCRINE DISRUPTING PROPERTIES:

This product does not contain substances with endocrine disrupting properties identified or under evaluation.

12.7 OTHER ADVERSE EFFECTS:

- Ozone depletion potential:

Not dangerous for the ozone layer.

- Photochemical ozone creation potential:

Not available.

- Earth global warming potential:

In case of fire or incineration liberates CO2.

# SECTION 13: DISPOSAL CONSIDERATIONS

# 13.1 WASTE TREATMENT METHODS:Directive 2008/98/EC~Regulation (EU) no. 1357/2014:

Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose at an authorised waste collection point. Waste should be handled and disposed in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers:Directive 94/62/EC~2015/720/EU, Decision 2000/532/EC~2014/955/EU:

Emptied containers and packaging should be disposed in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of empting of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:

Controlled incineration in special facilities for chemical waste, in accordance with local regulations.



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A chemical safety assessment has been carried out for this product.



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SECTION 14: TRANSPORT INFORMATION			
14.1	UN NUMBER OR ID NUMBER:		
	1263		
14.2	UN PROPER SHIPPING NAME:		
	PAINT		
14.3	TRANSPORT HAZARD CLASS(E	ES):	
14.0	Transport by road (ADR 2021) an		
	Transport by rail (RID 2021):		
	- Class:	3	
	- Packing group:		
	- Classification code:	F1	
	- Tunnel restriction code:	(E)	
	- Transport category: - Limited quantities:	3, max. ADR 1.1.3.6. 1000 L 5 L (see total exemptions ADR 3.4)	
	- Transport document:	Consignment paper.	
	- Instructions in writing:	ADR 5.4.3.4	
	Transport by sea (IMDG 39-18):		
	- Class:	3	
	- Packing group:		
	- Emergency Sheet (EmS): - First Aid Guide (MFAG):	F-E,S_E 310,313	
	- Marine pollutant:	No.	
	- Transport document:	Shipping Bill of lading.	
	Transport by air (ICAO/IATA 2021		
	- Class:	3	
	- Packing group:		
	- Transport document:	Air Bill of lading.	
	Transport by inland waterways (ADN):		
	Not available		
14.4	PACKING GROUP:		
	See section 14.3		
14.5	ENVIRONMENTAL HAZARDS:		
	Not applicable (not classified as hazardous for the environment).		
14.6	SPECIAL PRECAUTIONS FOR USER:		
	Ensure that persons transporting the upright and secure. Ensure adequate	product know what to do in case of accident or spill. Always transport in closed containers that are	
14.7	MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS:		
14.7	Not available.		
SECTION 15: REGULATORY INFORMATION			
15.1			
15.1	The regulations applicable to this product generally are listed throughout this Safety Data Sheet.		
	Restrictions on manufacture, placing on market and use:		
	See section 1.2		
	Tactile warning of danger:		
	Not applicable (product for professional or industrial use).		
	Child safety protection:		
	Not applicable (product for professional or industrial use).		
	OTHER REGULATIONS:		
	Control of the risks inherent in major accidents (Seveso III):		
	See section 7.2		
	Other local legislations:		
	The receiver should verify the possible existence of local regulations applicable to the chemical.		
15.2	CHEMICAL SAFETY ASSESSMENT:		



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### SECTION 16: OTHER INFORMATION

### 16.1 TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:

Hazard statements according the Regulation (EU) No. 1272/2008~2021/849 (CLP), Annex III:

H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. EUH014 Reacts violently with water. EUH066 Repeated exposure may cause skin dryness or cracking. H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

### ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:

It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of Safety Data Sheets and labelling of products as well.

# MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:

- · European Chemicals Agency: ECHA, http://echa.europa.eu/
- · Access to European Union Law, http://eur-lex.europa.eu/
- Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
- · Threshold Limit Values, (AGCIH, 2021).
- European agreement on the international carriage of dangerous goods by road, (ADR 2021).
- International Maritime Dangerous Goods Code IMDG including Amendment 39-18 (IMO, 2018).

#### ABBREVIATIONS AND ACRONYMS:

List of abbreviations and acronyms that can be used (but not necessarily used) in this Safety Data Sheet:

- · REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- · GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- · CLP: European regularion on Classificatin, Labelling amd Packaging of substances and chemical mixtures.
- · EINECS: European Inventory of Existing Commercial Chemical Substances.
- · ELINCS: European List of Notified Chemical Substances.
- · CAS: Chemical Abstracts Service (Division of the American Chemical Society).
- UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials.
- · SVHC: Substances of Very High Concern.
- · PBT: Persistent, bioaccumulable and toxic substances.
- · vPvB: Very persistent and very bioaccumulable substances.
- · VOC: Volatile Organic Compounds.
- DNEL: Derived No-Effect Level (REACH).
- · PNEC: Predicted No-Effect Concentration (REACH).
- · LC50: Lethal concentration, 50 percent.
- · LD50: Lethal dose, 50 percent.
- · UN: United Nations Organisation.
- · ADR: European agreement concerning the international carriage of dangeous goods by road.
- · RID: Regulations concerning the international transport of dangeous goods by rail.
- · IMDG: International Maritime code for Dangerous Goods.
- · IATA: International Air Transport Association.
- · ICAO: International Civil Aviation Organization.

# SAFETY DATA SHEET REGULATIONS:

Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex of Regulation (EU) No. 2020/878.

 HISTORIC:
 REVISION:

 Version: 1
 04/11/2022

 Version: 2
 27/03/2023

Changes since previous Safety Data Sheet:

Changes that have been introduced with respect to the previous version due to the structural and content adaptation of the Safety Data Sheet to Regulation (EU) No. 2020/878: All sections.

The information of this Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users" working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product"s properties.