

668 - GRIP 1000 (B)

Revision nr.6 Dated 11/04/2023 Printed on 11/04/2023 Page n. 1 / 17 Replaced revision:5 (Dated 03/04/2023) ΕN

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

SECTION 1. Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Code. 668 Product name GRIP 1000 (B) 3WW0-W099-200Q-YXAT UFI: 1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Non-slip drive-over bi-component guartz top coat for TRAFFIDECK 1.3. Details of the supplier of the safety data sheet Name NORD RESINE S.p.A. Full address Via Fornace Vecchia, 79 District and Country 31058 Susegana (TV) Italia Tel. +39 0438-437511 Fax +39 0438-435155 e-mail address of the competent person responsible for the Safety Data Sheet annabreda@nordresine.com Supplier: NORD RESINE S.p.A. 1.4. Emergency telephone number For urgent inquiries refer to +39 0438 437511

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Carcinogenicity, category 2	H351	Suspected of causing cancer.
Acute toxicity, category 4	H332	Harmful if inhaled.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Respiratory sensitization, category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:





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SECTION 2. Hazards identification / >>

Signal words:	Danger
Hazard statements: H351 H332 H373 H319 H315 H335 H334 H317 EUH204	Suspected of causing cancer. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Contains isocyanates. May produce an allergic reaction.
Precautionary statements P261 P280 P342+P311 P304+P340 P201 P308+P313	Avoid breathing dust / fume / gas / mist / vapours / spray. Wear protective gloves/ protective clothing / eye protection / face protection. If experiencing respiratory symptoms: call a POISON CENTER / doctor. IF INHALED: remove person to fresh air and keep comfortable for breathing. Obtain special instructions before use. IF exposed or concerned: Get medical advice / attention.
Contains:	DIPHENYLMETHANE-4,4'-DIISOCYANATE POLYMETHYLENE POLYPHENYL ISOCYANATE 2 4'-METHYLENEBIS(PHENYL ISOCYANATE) Polypropylene glycol, 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate polymer Reaction product of polypropilen oxide with toluendiisocyanate 1,6-hexanediyl-bis (2- (2- (1-ethylpentyl) -3-oxazolidinyl) ethyl) carbamate

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

Product not intended for uses provided for by Directive 2004/42/EC.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration $\ge 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:			
Identification	x = Conc	c. % Class	fication (EC) 1272/2008 (CLP)
POLYMETHY	LENE POLYPHENY	L ISOCYANATE	
CAS	9016-87-9	55 ≤ x < 75	Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: 2, C
EC			Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%, Resp. Sens. 1 H334: ≥ 0,1%, STOT SE 3 H335: ≥ 5%
INDEX	615-005-01-6		STA Inhalation vapours: 11 mg/l, STA Inhalation mists/powders: 1,5 mg/l
Reaction pro	duct of polypropiler	n oxide with toluendiis	socyanate
CAS EC INDEX	37273-56-6	10≤x< 12	Eye Irrit. 2 H319, Skin Sens. 1 H317
DIPHENYLME	ETHANE-4,4'-DIISOC	YANATE	
CAS	101-68-8	4≤x< 5	Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: 2, C
EC	202-966-0		Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%, Resp. Sens. 1 H334: ≥ 0,1%, STOT SE 3 H335: ≥ 5%
INDEX	615-005-00-9		STA Inhalation mists/powders: 1,5 mg/l
REACH Reg.	01-2119457014-47	7	



SECTION 3. Composition/information on ingredients/>>

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	5873-54-1	OCYANATE) 4≤x< 5	Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin
CAS	5075-54-7	4 2 X 1 3	Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317
EC	227-534-9		Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%, Resp. Sens. 1 H334: ≥ 0,1%
			STOT SE 3 H335: ≥ 5%
INDEX	615-005-00-9		STA Inhalation vapours: 11 mg/l, STA Inhalation mists/powders: 1,5 mg/l
REACH Reg.	01-2119480143-45		
Polypropylen	e glycol, 3-isocyana	tomethyl-3,5,5-trimeth	ylcyclohexyl isocyanate polymer
CAS	39323-37-0	1 ≤ x < 4	Skin Sens. 1 H317
EC	609-647-9		
INDEX			
2-METHOXY-	1-METHYLETHYL A	CETATE	
CAS	108-65-6	0 ≤ x < 1	Flam. Liq. 3 H226, STOT SE 3 H336
EC	203-603-9		
INDEX	607-195-00-7		
REACH Reg.	01-2119475791-29		
	TURE OF ISOMERS)	
CAS	1330-20-7	0≤x< 1	Flam. Lig. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315
			Classification note according to Annex VI to the CLP Regulation: C
EC	215-535-7		STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l
INDEX	601-022-00-9		
REACH Reg.	01-2119488216-32	pentyl) -3-oxazolidinyl)) ethyl) carbamate
REACH Reg.	01-2119488216-32		ethyl) carbamate Skin Sens. 1 H317
REACH Reg. 1,6-hexanediy	01-2119488216-32 yl-bis (2- (2- (1-ethyl	pentyl) -3-oxazolidinyl)	
REACH Reg. 1,6-hexanediy CAS	01-2119488216-32 yl-bis (2- (2- (1-ethyl 140921-24-0	pentyl) -3-oxazolidinyl)	
REACH Reg. 1,6-hexanediy CAS EC	01-2119488216-32 yl-bis (2- (2- (1-ethyl 140921-24-0 411-700-4 616-079-00-5	pentyl) -3-oxazolidinyl) 0 ≤ x < 1	
REACH Reg. 1,6-hexanediy CAS EC INDEX	01-2119488216-32 yl-bis (2- (2- (1-ethyl 140921-24-0 411-700-4 616-079-00-5 01-0000015906-63	pentyl) -3-oxazolidinyl) 0 ≤ x < 1	
REACH Reg. 1,6-hexanediy CAS EC INDEX REACH Reg.	01-2119488216-32 yl-bis (2- (2- (1-ethyl 140921-24-0 411-700-4 616-079-00-5 01-0000015906-63	pentyl) -3-oxazolidinyl) 0 ≤ x < 1	
REACH Reg. 1,6-hexanediy CAS EC INDEX REACH Reg. ETHYLBENZE	01-2119488216-32 yl-bis (2- (2- (1-ethyl 140921-24-0 411-700-4 616-079-00-5 01-0000015906-63 ENE	pentyl) -3-oxazolidinyl) 0 ≤ x < 1	Skin Sens. 1 H317
REACH Reg. 1,6-hexanediy CAS EC INDEX REACH Reg. ETHYLBENZE CAS	01-2119488216-32 yl-bis (2- (2- (1-ethyl 140921-24-0 411-700-4 616-079-00-5 01-0000015906-63 ENE 100-41-4	pentyl) -3-oxazolidinyl) 0 ≤ x < 1	Skin Sens. 1 H317 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373
REACH Reg. 1,6-hexanediy CAS EC INDEX REACH Reg. ETHYLBENZE CAS EC	01-2119488216-32 yl-bis (2- (2- (1-ethyl 140921-24-0 411-700-4 616-079-00-5 01-0000015906-63 ENE 100-41-4 202-849-4 601-023-00-4	pentyl) -3-oxazolidinyl) 0 ≤ x < 1 0 ≤ x < 1	Skin Sens. 1 H317 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373
REACH Reg. 1,6-hexanediy CAS EC INDEX REACH Reg. ETHYLBENZE CAS EC INDEX REACH Reg.	01-2119488216-32 yl-bis (2- (2- (1-ethyl 140921-24-0 411-700-4 616-079-00-5 01-0000015906-63 ENE 100-41-4 202-849-4 601-023-00-4	pentyl) -3-oxazolidinyl) 0 ≤ x < 1 0 ≤ x < 1	Skin Sens. 1 H317 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373
REACH Reg. 1,6-hexanediy CAS EC INDEX REACH Reg. ETHYLBENZE CAS EC INDEX REACH Reg.	01-2119488216-32 yl-bis (2- (2- (1-ethyl 140921-24-0 411-700-4 616-079-00-5 01-0000015906-63 ENE 100-41-4 202-849-4 601-023-00-4 01-2119489370-35	pentyl) -3-oxazolidinyl) 0 ≤ x < 1 0 ≤ x < 1	Skin Sens. 1 H317 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373
REACH Reg. 1,6-hexanediy CAS EC INDEX REACH Reg. ETHYLBENZE CAS EC INDEX REACH Reg. 1,1'-METHYLE	01-2119488216-32 yl-bis (2- (2- (1-ethyl 140921-24-0 411-700-4 616-079-00-5 01-0000015906-63 ENE 100-41-4 202-849-4 601-023-00-4 01-2119489370-35 ENEBIS(2-ISOCYAN	pentyl) -3-oxazolidinyl) 0 ≤ x < 1 0 ≤ x < 1 ATOBENZENE)	Skin Sens. 1 H317 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373 LC50 Inhalation vapours: 17,2 mg/l/4h
REACH Reg. 1,6-hexanediy CAS EC INDEX REACH Reg. ETHYLBENZE CAS EC INDEX REACH Reg. 1,1'-METHYLE	01-2119488216-32 yl-bis (2- (2- (1-ethyl 140921-24-0 411-700-4 616-079-00-5 01-0000015906-63 ENE 100-41-4 202-849-4 601-023-00-4 01-2119489370-35 ENEBIS(2-ISOCYAN	pentyl) -3-oxazolidinyl) 0 ≤ x < 1 0 ≤ x < 1 ATOBENZENE)	Skin Sens. 1 H317 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373 LC50 Inhalation vapours: 17,2 mg/l/4h Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin
REACH Reg. 1,6-hexanediy CAS EC INDEX REACH Reg. ETHYLBENZE CAS EC INDEX REACH Reg. 1,1'-METHYLE	01-2119488216-32 yl-bis (2- (2- (1-ethyl 140921-24-0 411-700-4 616-079-00-5 01-0000015906-63 ENE 100-41-4 202-849-4 601-023-00-4 01-2119489370-35 ENEBIS(2-ISOCYAN	pentyl) -3-oxazolidinyl) 0 ≤ x < 1 0 ≤ x < 1 ATOBENZENE)	Skin Sens. 1 H317 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373 LC50 Inhalation vapours: 17,2 mg/l/4h Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: 2, C
REACH Reg. 1,6-hexanediy CAS EC INDEX REACH Reg. ETHYLBENZE CAS EC INDEX REACH Reg. 1,1'-METHYLE CAS	01-2119488216-32 yl-bis (2- (2- (1-ethyl 140921-24-0 411-700-4 616-079-00-5 01-0000015906-63 ENE 100-41-4 202-849-4 601-023-00-4 01-2119489370-35 ENEBIS(2-ISOCYAN 2536-05-2	pentyl) -3-oxazolidinyl) 0 ≤ x < 1 0 ≤ x < 1 ATOBENZENE)	Skin Sens. 1 H317 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373 LC50 Inhalation vapours: 17,2 mg/l/4h Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: 2, C
REACH Reg. 1,6-hexanediy CAS EC INDEX REACH Reg. ETHYLBENZE CAS EC INDEX REACH Reg. 1,1'-METHYLE CAS	01-2119488216-32 yl-bis (2- (2- (1-ethyl 140921-24-0 411-700-4 616-079-00-5 01-0000015906-63 ENE 100-41-4 202-849-4 601-023-00-4 01-2119489370-35 ENEBIS(2-ISOCYAN 2536-05-2	pentyl) -3-oxazolidinyl) 0 ≤ x < 1 0 ≤ x < 1 ATOBENZENE)	Skin Sens. 1 H317 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373 LC50 Inhalation vapours: 17,2 mg/l/4h Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: 2, C Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%, Resp. Sens. 1 H334: ≥ 0,1%

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. ΕN



SECTION 5. Firefighting measures ... / >>

UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available



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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea si completarea hotărârii guvernului nr. 1.093/2006
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021
		POLYMETHYLENE POLYPHENYL ISOCYANATE

Threshold Limit	Value										
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
TLV-ACGIH		0,051	0	0	0						



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SECTION 8. Exposure controls/personal protection ... / >>

			DIPF	IENYLMETHAN	12-4,4 -D1150				
Threshold Limit V				0751 // 5					
Туре	Country	TWA		STEL/15		Remarks / Observations			
	~	mg/r		mg/m3	ppm				
TLV	CZE	0,05		0,1					
AGW	DEU	0,05		0,05 (C)		INHAL	C = 0,1 mg		
MAK	DEU	0,05		0,05 (C)		INHAL	C = 0,1 mg		
MAK	DEU	0,05		0,05		SKIN	C = 0,1 mg	g/m3	
VLA	ESP	0,05							
VLEP	FRA	0,1	0,01	0,2	0,02				
TLV	GRC	0,2		0,2					
AK	HUN	0,05		0,05					
NDS/NDSCh	POL	0,03		0,09					
TLV	ROU			0,15					
MV	SVN	0,05		0,05		INHAL			
MV	SVN		0,005		0,005	SKIN			
TLV-ACGIH		0,05	1 0,005						
Predicted no-effe	ct concent	ration -	PNEC						
Normal value in	fresh wate	r					1	mg/l	
Normal value in	marine wa	ter					0,1	mg/l	
Health - Derived r	no-effect le	vel - DN	EL / DMEL					0	
			consumers			Effects on wo	rkers		
Route of expos		Acute Acute		Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loc		systemic	local	systemic	local	systemic	local	systemic
Oral	VN		20	10001	eyetetine	1000	ejetenne		ojotonno
ora	•••		mg/kg bw/d						
Inhalation	0,0)5	0,05	0,025	0,025	0,1	0,1	0,05	0,05
maladon	,	/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin	17	,	25	ilig/ilio	ilig/ilio	28,7	50	ing/ine	iiig/iiio
OKIT		,∠ /cm2	mg/kg bw/d			mg/kg/d	mg/kg/d		
	ng	/ CITIZ	mg/kg bw/d			mg/kg/u	mg/kg/u		
			2 4'-M	ETHYLENEBIS	PHENYL ISC				
Predicted no-effe	ct concent	ration -							
Normal value in			INLO				1	mg/l	
Normal value in							0,1	mg/l	
Normal value of			me				1	mg/l	
							I	mg/i	
Joalth Dorivod r						Effects on wo	rkore		
Health - Derived r	EII			Chronic	Chronic			Chronic	Chronic
	۸- ۸ -	ule	Acute systemic	Chronic	Chronic	Acute	Acute	Chronic	Chronic
Route of expos		- 1	sv/stemic	local	systemic	local	systemic	local	systemic
Route of expos	loc								
			20						
Route of expos	loc VN	ID	20 mg/kg/d						
Route of expos	loc VN 0,0	ID)5	20 mg/kg/d 0,05	0,025	0,025	0,1	0,1	0,05	0,05
Route of expos Oral Inhalation	loc VN 0,0 mg	ID)5 j/m3	20 mg/kg/d 0,05 mg/m3	0,025 mg/m3	0,025 mg/m3	mg/m3	mg/m3	0,05 mg/m3	0,05 mg/m3
Oral	loc VN 0,0	ID)5 j/m3	20 mg/kg/d 0,05						



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SECTION 8. Exposure controls/personal protection/>>

2-METHOXY-1-METHYLETHYL ACETATE

Threshold Limit \	Value								
Туре	Country	TWA/8h		STEL/15	imin	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	270	49,14	550	100,1	SKIN			
AGW	DEU	270	50	270	50				
MAK	DEU	270	50	270	50				
VLA	ESP	275	50	550	100	SKIN			
VLEP	FRA	275	50	550	100	SKIN			
TLV	GRC	275	50	550	100				
AK	HUN	275		550					
GVI/KGVI	HRV	275	50	550	100	SKIN			
VLEP	ITA	275	50	550	100	SKIN			
TGG	NLD	550							
VLE	PRT	275	50	550	100	SKIN			
NDS/NDSCh	POL	260		520		SKIN			
TLV	ROU	275	50	550	100	SKIN			
MV	SVN	275	50	550	100	SKIN			
WEL	GBR	274	50	548	100	SKIN			
OEL	EU	275	50	550	100	SKIN			
Predicted no-effe		ation - PNE	С						
Normal value ir	n fresh water						0,635	mg/l	
Normal value in	n marine wate	er					0,0635	mg/l	
Normal value for	or fresh wate	r sediment					3,29	mg/kg	
Normal value for	or marine wa	ter sedimen	t				0,329	mg/kg	
Normal value for	or water, inte	mittent rele	ase				6,35	mg/l	
Normal value o	of STP microc	organisms					100	mg/l	
Normal value for	or the terrestr	ial compart	ment				0,29	mg/kg	
Health - Derived	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on cons	umers			Effects on wo	orkers		
Route of expos	sure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	stemic	local	systemic	local	systemic	local	systemic
Oral					1,67				
					mg/kg/d				
Inhalation					33				275
					mg/m3				mg/m3
Skin					54,8				153,5
					mg/kg/d				mg/kg/d

XYLENE (MIXTURE OF ISOMERS)

			~		UKE OF 13	OWERS)
Threshold Limit V	Value					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	200	45,4	400	90,8	SKIN
AGW	DEU	440	100	880	200	SKIN
MAK	DEU	440	100	880	200	SKIN
VLA	ESP	221	50	442	100	SKIN
VLEP	FRA	221	50	442	100	SKIN
TLV	GRC	435	100	650	150	
AK	HUN	221		442		SKIN
GVI/KGVI	HRV	221	50	442	100	SKIN
VLEP	ITA	221	50	442	100	SKIN
TGG	NLD	210		442		SKIN
VLE	PRT	221	50	442	100	SKIN
NDS/NDSCh	POL	100		200		SKIN
TLV	ROU	221	50	442	100	SKIN
MV	SVN	221	50	442	100	SKIN
WEL	GBR	220	50	441	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	



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SECTION 8. Exposure controls/personal protection .../>>

	ETHYLBENZENE									
Threshold Limit Value										
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	CZE	200	45,4	500	113,5	SKIN				
AGW	DEU	88	20	176	40	SKIN				
MAK	DEU	88	20	176	40	SKIN				
VLA	ESP	441	100	884	200	SKIN				
VLEP	FRA	88,4	20	442	100	SKIN				
TLV	GRC	435	100	545	125					
AK	HUN	442		884		SKIN				
GVI/KGVI	HRV	442	100	884	200	SKIN				
VLEP	ITA	442	100	884	200	SKIN				
TGG	NLD	215		430		SKIN				
VLE	PRT	442	100	884	200	SKIN				
NDS/NDSCh	POL	200		400		SKIN				
TLV	ROU	442	100	884	200	SKIN				
MV	SVN	442	100	884	200	SKIN				
WEL	GBR	441	100	552	125	SKIN				
OEL	EU	442	100	884	200	SKIN				
TLV-ACGIH		87	20							

1,1'-METHYLENEBIS(2-ISOCYANATOBENZENE)

Health - Derived no-eff	ect level - D	NEL / DMEL								
Effects on consumers						Effects on workers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic		
	local	systemic	local	systemic	local	systemic	local	systemic		
Inhalation	0,05	0,05	0,025	0,025	0,1	0,1	0,05	0,05		
	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3		
Skin	VND	25			VND	50				
		mg/kg/d				mg/kg/d				

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

ΕN



Information

ΕN

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	1,96 %	-	23,97	g/litre
VOC (volatile carbon)	1,45 %	-	17,75	g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

DIPHENYLMETHANE-4,4'-DIISOCYANATE

Decomposes at 274°C/525°F. With water it develops carbon dioxide and forms an insoluble solid polymer and consequently any wet material recovered must be stored in open containers.

2-METHOXY-1-METHYLETHYL ACETATE Stable in normal conditions of use and storage. With the air it may slowly develop peroxides that explode with an increase in temperature.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

DIPHENYLMETHANE-4,4'-DIISOCYANATE

May react dangerously with: alcohols,amines,ammonia,sodium hydroxide,acids,water,strong acids,strong bases.

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage.Reacts violently with: strong oxidants,strong acids,nitric acid,perchlorates.May form explosive mixtures with: air.

ETHYLBENZENE

Reacts violently with: strong oxidants.Attacks various types of plastic materials.May form explosive mixtures with: air.



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SECTION 10. Stability and reactivity ... / >>

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE Incompatible with: oxidising substances, strong acids, alkaline metals.

10.6. Hazardous decomposition products

DIPHENYLMETHANE-4,4'-DIISOCYANATE

May develop: nitric oxide,carbon oxides,hydrogen cyanide.

ETHYLBENZENE May develop: methane,styrene,hydrogen,ethane.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYL ACETATE The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

DIPHENYLMETHANE-4,4'-DIISOCYANATE WORKERS: inhalation; contact with the skin. POPULATION: inhalation of ambient air; contact with the skin of products containing the substance.

2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation; contact with the skin.

XYLENE (MIXTURE OF ISOMERS) WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

ETHYLBENZENE WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

DIPHENYLMETHANE-4,4'-DIISOCYANATE

Causes symptoms of irritation of the eye mucous membranes, upper respiratory and digestive tract and also to the skin; lung irritation of the bronchitis type (chest pains, cough, asthmatic wheezing), neurological symptoms (dizziness, balance disorders, headaches and consciousness disturbances). In severe cases, may give rise to delayed pulmonary edema (INRS, 2009). May cause hypersensitivity pneumonia which, in the event of continuous exposure, may progress to interstitial fibrosis (INRS, 2009).

2-METHOXY-1-METHYLETHYL ACETATE

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (IspesI). Is irritating for skin, conjunctiva and respiratory tract.

Interactive effects



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SECTION 11. Toxicological information ... / >>

DIPHENYLMETHANE-4,4'-DIISOCYANATE Cross sensitisations with other isocyanates are possible, in particular with TDI (toluene diisocyanate).

XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: ATE (Inhalation - vapours) of the mixture: ATE (Inhalation - gas) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	1,76 mg/l 13,75 mg/l Acute Tox. 4 Not classified (no significant component) Not classified (no significant component)
POLYMETHYLENE POLYPHENYL ISOCYANATE STA (Inhalation mists/powders): STA (Inhalation vapours):	1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) 11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
DIPHENYLMETHANE-4,4'-DIISOCYANATE STA (Inhalation mists/powders):	1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
2 4'-METHYLENEBIS(PHENYL ISOCYANATE) LD50 (Dermal): LD50 (Oral):	> 9400 mg/kg Rabbit > 2000 mg/kg Rat
2-METHOXY-1-METHYLETHYL ACETATE LD50 (Dermal): LD50 (Oral):	> 5000 mg/kg Rat 8530 mg/kg Rat
XYLENE (MIXTURE OF ISOMERS) LD50 (Dermal): STA (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	4350 mg/kg Rabbit 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) 3523 mg/kg Rat 26 mg/l/4h Rat
ETHYLBENZENE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	15354 mg/kg Rabbit 3500 mg/kg Rat 17,2 mg/l/4h Rat
SKIN CORROSION / IRRITATION	
Causes skin irritation	
SERIOUS EYE DAMAGE / IRRITATION	

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin Sensitising for the respiratory system

Respiratory sensitization

Information not available

Skin sensitization



ΕN

SECTION 11. Toxicological information ... / >>

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Suspected of causing cancer

DIPHENYLMETHANE-4,4'-DIISOCYANATE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

XYLENE (MIXTURE OF ISOMERS) Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000). Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

May cause respiratory irritation

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

May cause damage to organs

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class



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SECTION 11. Toxicological information ... / >>

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

DIPHENYLMETHANE-4,4'-DIISOCYANATE LC50 - for Fish	> 1000 mg/l/96h Danio rerio
2 4'-METHYLENEBIS(PHENYL ISOCYANATE) LC50 - for Fish	> 1000 mg/l/96h Daphnia magna
12.2. Persistence and degradability	
XYLENE (MIXTURE OF ISOMERS) Solubility in water Rapidly degradable	100 - 1000 mg/l
2-METHOXY-1-METHYLETHYL ACETATE Solubility in water Rapidly degradable	> 10000 mg/l
DIPHENYLMETHANE-4,4'-DIISOCYANATE Solubility in water NOT rapidly degradable	0,1 - 100 mg/l
ETHYLBENZENE Solubility in water Rapidly degradable	1000 - 10000 mg/l
12.3. Bioaccumulative potential	
XYLENE (MIXTURE OF ISOMERS) Partition coefficient: n-octanol/water BCF	3,12 25,9
2-METHOXY-1-METHYLETHYL ACETATE Partition coefficient: n-octanol/water	1,2
DIPHENYLMETHANE-4,4'-DIISOCYANATE Partition coefficient: n-octanol/water	4,51
ETHYLBENZENE Partition coefficient: n-octanol/water	3,6
12.4. Mobility in soil	
XYLENE (MIXTURE OF ISOMERS) Partition coefficient: soil/water	2,73
12.5 Posults of PBT and vPvB assossment	

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.



ΕN

SECTION 12. Ecological information ... / >>

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU:

None

Product		
Point	3 - 40	
Contained substance		
Point	75	
Point	56	DIPHENYLMETHANE-4,4'-DIISOCYANATE
		REACH Reg.: 01-2119457014-47
Point	56	2 4'-METHYLENEBIS(PHENYL ISOCYANATE)

@EPY 11.1.2 - SDS 1004.14



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SECTION 15. Regulatory information ... / >>

Point	74	REACH Reg.: 01-211948 DIISOCYANATES	480143-45
) 2019/1148 - on the ma	arketing and use of explosive	es precursors
Not applicable			
	Candidate List (Art. 59 F available data, the proc		VHC in percentage ≥ than 0,1%.
Substances sub None	oject to authorisation (A	nnex XIV REACH)	
	pject to exportation repo	orting pursuant to Regulation	n (EU) 649/2012:
None			
Substances sub None	oject to the Rotterdam C	Convention:	
Substances sub None	pject to the Stockholm C	Convention:	
•	ed to this chemical ager	5	hecks, provided that available risk-assessment data prove that the risk 3/24/EC directive is respected.
.2. Chemical sa	afety assessment		
A chemical safe	ety assessment has not	been performed for the prepa	aration/for the substances indicated in section 3.

SECTION 16. Other information

15.2.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Carc. 2	Carcinogenicity, category 2
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1	Skin sensitization, category 1
H225	Highly flammable liquid and vapour.
H351	Suspected of causing cancer.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H336	May cause drowsiness or dizziness.
EUH204	Contains isocyanates. May produce an allergic reaction.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation



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SECTION 16. Other information ... / >>

- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Verv Persistent and verv Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise



Revision nr.6 Dated 11/04/2023 Printed on 11/04/2023 Page n. 17 / 17 Replaced revision:5 (Dated 03/04/2023)

SECTION 16. Other information ... / >>

in Section 12.

Changes to previous review: The following sections were modified: 09.