

209 - TIPEWALL (B)

Revision nr.7 Dated 31/07/2024 Printed on 31/07/2024
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Replaced revision:6 (Dated 30/04/2024)

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: 209

Product name **TIPEWALL (B)**

20G1-M0N9-1006-MV9N

1.2. Relevant identified uses of the substance or mixture and uses advised against

Bi-component top coat for coating the guartz layer on 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

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:

Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Acute toxicity, category 4	H332	Harmful if inhaled.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
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,	H335	May cause respiratory irritation.
category 3		
Skin sensitization, category 1B	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

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:

H225 Highly flammable liquid and vapour.

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.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

EUH204 Contains isocyanates. May produce an allergic reaction.

Precautionary statements:

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

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

P331 Do NOT induce vomiting.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor.

P370+P378 In case of fire: use carbon anhydride, foam, nebulized water to extinguish.

Contains: Reaction mass of ethylbenzene and m-xylene and p-xylene

Hexane, 1,6-diisocyanato-, homopolymer, polyethylene glycol mono-Me etherblocked

VOC (Directive 2004/42/EC):

Two-pack reactive performance coatings for specific end use such as floors.

VOC given in g/litre of product in a ready-to-use condition : 462,93 Limit value: 500,00

- Catalysed with : 300,00 % TIPEWALL (A)

- Thinned with: 10,00 % SOLVENTE PER TIPEWALL

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

Hexane, 1,6-diisocyanato-, homopolymer, polyethylene glycol mono-Me etherblocked

INDEX $50 \le x < 75$ Acute Tox. 4 H332, STOT SE 3 H335, Skin Sens. 1B H317, Aquatic Chronic 3

H412

EC ATE Inhalation mists/powders: 1,5 mg/l

CAS 160994-68-3

Reaction mass of ethylbenzene and m-xylene and p-xylene

INDEX 15 \leq x < 20 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,

STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C

EC 905-562-9 ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l

CAS

REACH Reg. 01-2119555267-33

ETHYL ACETATE

INDEX 607-022-00-5 $7 \le x < 10$ Flam. Liq. 2 H225, E

EC 205-500-4 CAS 141-78-6

REACH Reg. 01-2119475103-46

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066



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SECTION 3. Composition/information on ingredients

N-BUTYL ACETATE

EC

EC

607-025-00-1 3 < x < 5INDEX

204-658-1

CAS 123-86-4

REACH Reg. 01-2119485493-29

2-METHOXY-1-METHYLETHYL ACETATE

INDEX 607-195-00-7

EC 203-603-9 108-65-6 CAS

REACH Reg. 01-2119475791-29 **HEXAMETHYLENE-DI-ISOCYANATE**

INDEX 615-011-00-1 0 < x < 0.1

Acute Tox. 1 H330, Acute Tox. 4 H302, 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

Flam. Lig. 3 H226, STOT SE 3 H336, EUH066

Flam. Lig. 3 H226, STOT SE 3 H336

Skin Sens. 1 H317: ≥ 0,5%, Resp. Sens. 1 H334: ≥ 0,5%

LD50 Oral: 746 mg/kg, LC50 Inhalation vapours: 0,124 mg/l/4h

CAS REACH Reg. 01-2119457571-37

212-485-8

822-06-0

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

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

IF SWALLOWED: immediately call a POISON CENTER / doctor.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment: see section 4.1

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.



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SECTION 5. Firefighting measures .../

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. 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.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

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. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

2-METHOXY-1-METHYLETHYL ACETATE

Store in an inert atmosphere, sheletered from moisture because it hydrolises easily.

7.3. Specific end use(s)



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Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb.,
		kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur
		Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
ESP	España	Límites de exposición profesional para agentes químicos en España 2023
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849
		du 28 décembre 2021
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, en 4.16, 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 și completarea hotărârii guvernului nr. 1.093/2006
RUS	Россия	ПОСТАНОВЛЕНИЕ от 13 февраля 2018 г. N 25 ОБ УТВЕРЖДЕНИИ ГИГИЕНИЧЕСКИХ
		НОРМАТИВОВ ГН 2.2.5.3532-18 "ПРЕДЕЛЬНО ДОПУСТИМЫЕ КОНЦЕНТРАЦИИ (ПДК)
		ВРЕДНЫХ ВЕЩЕСТВ В ВОЗДУХЕ РАБОЧЕЙ ЗОНЫ"
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) 2022/431; 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 2023



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SECTION 8. Exposure controls/personal protection

reshold Limit V	/alua		2-IVIE I HU	∧ T - I - IVII	ETHYLETHYL	ACEIAIE				
		TWA/8h			STEL/15min		Damar	ks / Observa	tiono	
Туре	Country		nnn			n.n.n.	Remar	ks / Observa	itions	
TLV	CZE	mg/m3 270	ppm		mg/m3 550	ppm	SKIN			
			49,14			100,1	SKIN			
AGW MAK	DEU DEU	270	50 50		270 270	50 50				
		270					OLCINI			
VLA	ESP	275	50		550	100	SKIN			
VLEP	FRA	275	50		550	100	SKIN			
TLV	GRC	275	50		550	100				
AK	HUN	275	50		550	100	0.41			
GVI/KGVI	HRV	275	50		550	100	SKIN			21/22
VLEP	ITA	275	50		550	100	SKIN	Allegato XX	XXVIII D.Lgs	. 81/08
TGG	NLD	550								
VLE	PRT	275	50		550	100	SKIN			
NDS/NDSCh	POL	260			520		SKIN			
TLV	ROU	275	50		550	100	SKIN			
ПДК	RUS				10			П		
MV	SVN	275	50		550	100	SKIN			
WEL	GBR	274	50		548	100	SKIN			
OEL	EU	275	50		550	100	SKIN			
redicted no-effe		ition - PNEC								
Normal value in								0,635	mg/l	
Normal value in		•						0,0635	mg/l	
Normal value for								3,29	mg/kg	
Normal value for								0,329	mg/kg	
Normal value for	,							6,35	mg/l	
Normal value of								100	mg/l	
		ial compartment						0,29	mg/kg	
ealth - Derived r		el - DNEL / DME	_							
	Effe	cts on consumers	6			Effects	on worke	rs		
Route of expos	ure Acut	te Acute	C	hronic	Chronic	Acute		Acute	Chronic	Chronic
	local	l systemic	c lo	cal	systemic	local		systemic	local	systemic
Oral					1,67 mg/kg/d					
Inhalation					33					275
madadon					mg/m3					mg/m3
Skin					54,8					153.5
Citari					mg/kg/d					mg/kg/d



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	/- 1			EINI	L ACETATE					
reshold Limit V		TWA/8h			TEL/15min		D-	marks / Observa	4:	
Туре	Country		nnn					marks / Observa	itions	
T1 \ /	075	mg/m3	ppm		ıg/m3	ppi				
TLV	CZE	700	191,1		100	24	,			
AGW	DEU	730	200	-	460	40				
MAK	DEU	750	200	•	500	40	•			
VLA	ESP	734	200		468	40				
VLEP	FRA	734	200	-	468	40				
TLV	GRC	734	200	-	468	40				
AK	HUN	734	200		468	40				
GVI/KGVI	HRV	734	200		468	40				
VLEP	ITA	734	200		468	40	00	Allegato XX	XXVIII D.Lgs	. 81/08
TGG	NLD	734			468		_			
VLE	PRT	734	200		468	40	00			
NDS/NDSCh	POL	734			468					
TLV	ROU	734	200		468	40	00			
ПДК	RUS	50			200			П		
MV	SVN	734	200	1	468	40				
WEL	GBR	734	200	1	468	40	00			
OEL	EU	734	200	1	468	40	00			
TLV-ACGIH		1441	400							
redicted no-effe	ct concentra	ation - PNEC								
Normal value in	fresh water							0,26	mg/l	
Normal value in	marine wate	er						0,026	mg/l	
Normal value for	r fresh water	r sediment						1,25	mg/kg	
Normal value for	r marine wat	ter sediment						0,125	mg/kg	
Normal value for	or water, inter	rmittent release						1,65	mg/l	
Normal value of	f STP microo	organisms						650	mg/l	
Normal value for			poisoning)					200	mg/kg	
Normal value for								0,24	mg/kg	
ealth - Derived r								- ,	3- 3	
		cts on consume					Effects on we	orkers		
Route of expos			. •	Chronic	Chronic		Acute	Acute	Chronic	Chronic
rtoute or expec	loca		nic.	local	systemic		local	systemic	local	systemic
Oral	1000	NPI		local	4,5 mg/kg bw/		local	Systemio	10001	Systemio
Inhalation	734	734		367	367		1468	1468	734	734
	mg/ı	m3 mg/m3		mg/m3	mg/m3		mg/m3	mg/m3	mg/m3	mg/m3
Skin	NPI			LOW	37		LOW	NPI	NPI	63
***					mg/kg bw/					mg/kg
						-				bw/d



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				N-BUT	YL ACETATE	=				
nreshold Limit V										
Туре	Country	TWA/8h			STEL/15min			emarks / Observa	tions	
		mg/m3	ppm		ng/m3	ppm	1			
TLV	CZE	241			723					
AGW	DEU	300	62		600	124				
MAK	DEU	480	100		960	200				
VLA	ESP	241	50		723	150				
VLEP	FRA	241	50		723	150				
TLV	GRC	710	150		950	200				
AK	HUN	241	50		723	150				
GVI/KGVI	HRV	241	50		723	150				
VLEP	ITA	241	50		723	150)	Allegato XX	XVIII D.Lgs	. 81/08
TGG	NLD	150								
VLE	PRT	241	50		723	150)			
NDS/NDSCh	POL	240			720					
TLV	ROU	241	50		723	150)			
ПДК	RUS			(0,1			П		
MV	SVN	300	62	(300	124	ļ.			
WEL	GBR	724	150	9	966	200)			
OEL	EU	241	50		723	150)			
TLV-ACGIH			50			150)			
redicted no-effe	ct concentra	ation - PNEC								
Normal value in	fresh water							0,18	mg/l	
Normal value in	marine wate	er						0,018	mg/l	
Normal value for	r fresh water	r sediment						0,981	mg/kg/d	
Normal value for	r marine wat	ter sediment						0,0981	mg/kg/d	
Normal value for	or water, inter	rmittent release						0,36	mg/l	
Normal value of	f STP microo	organisms						35,6	mg/l	
		rial compartment						0,0903	mg/kg	
		el - DNEL / DME	L						0 0	
		cts on consumer				Е	Effects on w	orkers		
Route of expos	ure Acu	te Acute		Chronic	Chronic	Δ	Acute	Acute	Chronic	Chronic
	loca		С	local	systemic		ocal	systemic	local	systemic
Oral	.504	2			2			-, 5.55		- ,
		mg/kg/d			mg/kg/d					
Inhalation	300			35,7	35,7	6	000	600	300	300
	mg/i			mg/m3	mg/m3	-	ng/m3	mg/m3	mg/m3	mg/m3
Skin	9/1	6			6			11		11
O.M.I		mg/kg/d			mg/kg/d			mg/kg		mg/kg
		mg/kg/d			mg/kg/d			bw/d		bw/d



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LOTION O. Expo	Jui 5 5011ti	0.0, p 0.00110	p. otootic	,						
HEXAMETHYLENE-DI-ISOCYANATE										
Threshold Limit Value										
Type	Country	TWA/8h			STEL/15min		Remar	ks / Observa	tions	
		mg/m3	ppm		mg/m3	ppm				
TLV	CZE	0,035	0,005		0,07	0,01				
AGW	DEU	0,035	0,005		0,035	0,005		11,12		
MAK	DEU	0,035	0,005		0,035 (C)	0,005 (C)		C = 0.070 r	ng/m3	
VLA	ESP	0,035	0,005							
VLEP	FRA	0,075	0,01		0,15	0,02				
AK	HUN	0,035			0,035					
NDS/NDSCh	POL	0,04			0,08		SKIN			
TLV	ROU	0,05	0,007		1	0,14				
ПДК	RUS				0,05			п, А		
MV	SVN	0,035	0,005		0,035	0,005				
OEL	EU	0,01			0,02		SKIN	As NCO		
TLV-ACGIH		0,034	0,005							
Predicted no-effe	ct concentr	ation - PNEC								
Normal value in	n fresh water	•						0,1	mg/l	
Normal value in	n marine wat	er						0,01	mg/l	
Normal value for	or fresh wate	r sediment						2530	mg/kg/d	
Normal value for	or marine wa	ter sediment						253	mg/kg/d	
Normal value of STP microorganisms								100	mg/l	
Normal value for	or the terrest	rial compartm	ent					505	mg/kg/d	
Health - Derived I	no-effect lev	/el - DNEL / D	MEL							
	Effe	ects on consur	mers			Effects of	on worke	rs		
Route of expos	ure Acı	ıte Acut	te	Chronic	Chronic	Acute		Acute	Chronic	Chronic

Reaction mass of ethylbenzene and m-xylene and p-xylene										
Threshold Limit Value										
Type	Country	TWA/8h		STEL/15mi	n	Remarks / Observ	vations			
		mg/m3	ppm	mg/m3	ppm					
VLEP	ITA	221	50	442	100	SKIN				
OEL	EU	221	50	442	100	SKIN				
TLV-ACGIH		434	100	651	150					
Predicted no-ef	fect concentra	ation - PNEC								
Normal value	in fresh water					0,25	mg/l			
Normal value	in marine wate	0,25	mg/l							
Normal value	for marine wa	14,33	mg/kg							
Normal value	for the terrestr	rial compartme	nt			2,41	mg/kg			

systemic

local

0,07

mg/m3

systemic

0,07

mg/m3

local

0,035

mg/m3

systemic

0,035

mg/m3

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

local

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

hazard; MED = medium hazard; HIGH = high hazard.

local

systemic

8.2. Exposure controls

Inhalation

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.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, 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.

Protect your hands with gloves of the following type:

Material: Laminated film - LLDPE

In the case of mixtures, work glove resistance to chemical agents must be verified before use, as it is not predictable. Gloves have a wear time that depends on use type and duration.

Thickness: 0,06 mm



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SECTION 8. Exposure controls/personal protection

Glove thickness must be selected based on the minimum required breakthrough time.

Breakthrough time: 480 min

Glove resistance depends on various elements, such as temperature and other environmental factors.

Material: Viton or fluoroelastomer (FKM)

In the case of mixtures, work glove resistance to chemical agents must be verified before use, as it is not predictable. Gloves have a wear time that depends on use type and duration.

Thickness: 0,7 mm

Glove thickness must be selected based on the minimum required breakthrough time.

Breakthrough time: 480 min

Glove resistance depends on various elements, such as temperature and other environmental factors.

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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN ISO 16321).

RESPIRATORY PROTECTION

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. Use a mask with a type AX filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties		Value	Information
Appearance		liquid	
Colour		colourless	
Odour		characteristic of solvent	
Odour threshold		not determined	
Melting point / freezing point		not determined	Reason for missing data:not determined
Initial boiling point	>	35 °C	
Boiling range		not determined	
Flammability		flammable liquid	
Lower explosive limit		not determined	Reason for missing data:not determined
Upper explosive limit		not determined	Reason for missing data:not determined
Flash point	<	23 °C	
Auto-ignition temperature		not determined	Reason for missing data:not determined
Decomposition temperature		not determined	Reason for missing data:not determined
рН		not available	
Kinematic viscosity		not determined	Reason for missing data:not determined
Dynamic viscosity		not determined	
Solubility		soluble in organic solvents	
Partition coefficient: n-octanol/water		not applicable	
Vapour pressure		not determined	Reason for missing data:not determined
Density and/or relative density		1,01 kg/l	Method:EN ISO 2811-1
			Temperature: 23 °C
Relative vapour density		not determined	Reason for missing data:not determined
Particle characteristics		not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available





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SECTION 9. Physical and chemical properties/>>

9.2.2. Other safety characteristics

VOC (Directive 2004/42/EC): 30,00 % -303,00 g/litre VOC (volatile carbon) 22.04 % 222.59 a/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

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

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.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

Decomposes on contact with: water.

HEXAMETHYLENE-DI-ISOCYANATE

Decomposes at 255°C/491°F.Polymerises at temperatures above 200°C/392°F.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

2-METHOXY-1-METHYLETHYL ACETATE

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

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents. May react dangerously with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

HEXAMETHYLENE-DI-ISOCYANATE

May form explosive mixtures with: alcohols,bases.May react violently with: alcohols,amines,strong bases,oxidising agents,strong acids,water.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

N-BUTYL ACETATE

Avoid exposure to: moisture, sources of heat, naked flames.

HEXAMETHYLENE-DI-ISOCYANATE

Avoid exposure to: high temperatures, moisture.

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances, strong acids, alkaline metals.

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,chlorosulphuric acid.

N-BUTYL ACETATE

Incompatible with: water, nitrates, strong oxidants, acids, alkalis, zinc.

HEXAMETHYLENE-DI-ISOCYANATE

Incompatible with: alcohols, carboxylic acids, amines, strong bases.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

HEXAMETHYLENE-DI-ISOCYANATE

May develop: nitric oxide, hydrogen cyanide.



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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

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

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

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

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).

N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

Interactive effects

N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: 2,00 mg/l ATE (Inhalation - vapours) of the mixture: > 20 mg/l

ATE (Oral) of the mixture: Not classified (no significant component)

ATE (Dermal) of the mixture: >2000 mg/kg

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal): > 5000 mg/kg Rat LD50 (Oral): 5155 mg/kg Rat

ETHYL ACETATE

> 20000 mg/kg Rabbit LD50 (Dermal): LD50 (Oral): 4934 mg/kg Rabbit LC50 (Inhalation vapours): > 29,3 mg/l/4h Rat

N-BUTYL ACETATE

LD50 (Dermal): > 14112 mg/kg Rabbit LD50 (Oral): 10760 mg/kg Rat LC50 (Inhalation vapours): 21,1 mg/l/4h Rat



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HEXAMETHYLENE-DI-ISOCYANATE

> 7000 mg/kg LD50 (Dermal): LD50 (Oral): 746 mg/kg Rat 0,124 mg/l/4h Rat LC50 (Inhalation vapours):

Hexane, 1,6-diisocyanato-, homopolymer, polyethylene glycol mono-Me etherblocked

LD50 (Dermal): > 2000 mg/kg Rat LD50 (Oral): > 2000 mg/kg Rat LC50 (Inhalation mists/powders): 0.39 mg/l/4h Rat

ATE (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)

Reaction mass of ethylbenzene and m-xylene and p-xylene

LD50 (Dermal): 12126 mg/kg Rabbit

ATE (Dermal): 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)

LD50 (Oral): 27,124 mg/l/4h Rat LC50 (Inhalation vapours):

ATE (Inhalation vapours): 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)

SKIN CORROSION / IRRITATION

Causes skin irritation

2-METHOXY-1-METHYLETHYL ACETATE

Species: rabbit Result: non-irritating Method: OECD 404

N-BUTYL ACETATE Species: rabbit Result: non-irritating Method: OECD 404

Hexane, 1,6-diisocyanato-, homopolymer, polyethylene glycol mono-Me etherblocked

Species: rabbit

Method: OECD Test Guideline 404

Result: slightly irritating Studies on a similar product

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

2-METHOXY-1-METHYLETHYL ACETATE

Species: rabbit Result: non-irritating Method: OECD 405

N-BUTYL ACETATE Species: rabbit Result: non-irritating Method: OECD 405

Hexane, 1,6-diisocyanato-, homopolymer, polyethylene glycol mono-Me etherblocked

Species: rabbit Result: slightly irritating

Method: OECD Test Guideline 405 Studies on a similar product.

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

2-METHOXY-1-METHYLETHYL ACETATE

Species: guinea pig Result: non-sensitizing Method: OECD 406



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N-BUTYL ACETATE Species: guinea pig Result: non-sensitizing Method: OECD 406

Respiratory sensitization

Hexane, 1,6-diisocyanato-, homopolymer, polyethylene glycol mono-Me etherblocked

Respiratory sensitization

Classification: No classification according to EC Directives 2006/121/EC or 1999/45/EC as a respiratory sensitiser.

No pulmonary sensitization in animal testing.

No potential for pulmonary sensitization in guinea pigs was established after either intradermal induction or inhalation of hexamethylene diisocyanate-based polyisocyanate.

Skin sensitization

Hexane, 1,6-diisocyanato-, homopolymer, polyethylene glycol mono-Me etherblocked

Skin sensitization according to Magnusson/Kligmann (maximization test)

Species: Guinea pig Result: positive

Classification: May cause sensitization by skin contact (subcat. 1B)

Method: OECD Test Guideline 406 Studies on a similar product.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

Hexane, 1,6-diisocyanato-, homopolymer, polyethylene glycol mono-Me etherblocked

Genotoxicity in vitro Test Type: Ames Test

Test system: Salmonella typhimurium

Result: negative Method: OECD TG 471 Studies on a similar product.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

Target organs

Hexane, 1,6-diisocyanato-, homopolymer, polyethylene glycol mono-Me etherblocked May irritate the respiratory tract. Studies on a similar product.

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Toxic for aspiration

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.

Special characteristics/effects: In case of overexposure there is a risk, depending on the concentration, of irritation of the eyes, nose, throat and respiratory tract. Possible delayed onset of disorders and development of a form of hypersensitivity (respiratory disorders, cough, asthma). Hypersensitive people may experience these effects even at low concentrations of isocyanate, including concentrations below the



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occupational exposure limit. In case of prolonged contact with the skin, irritating and dehydrating effects are possible. In animal experiments and other evidence it has emerged that skin contact with diisocyanates could play a role in isocyanate sensitization and respiratory tract reactions.

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it has negative effects on the aquatic environment.

12.1. Toxicity

2-METHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish > 100 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea > 500 mg/l/48h Daphnia magna Chronic NOEC for Crustacea > 100 mg/l Daphnia magna

ETHYL ACETATE

LC50 - for Fish 230 mg/l/96h Pimephales promelas

EC50 - for Crustacea 154 mg/l/48h

N-BUTYL ACETATE

LC50 - for Fish

EC50 - for Crustacea

Chronic NOEC for Crustacea

18 mg/l/96h Pimephales promelas

44 mg/l/48h Daphnia magna

23 mg/l Daphnia magna

HEXAMETHYLENE-DI-ISOCYANATE

EC50 - for Algae / Aquatic Plants 199 mg/l/72h Scenedesmus Subspicatus

Chronic NOEC for Algae / Aquatic Plants 11,7 mg/l

Hexane, 1,6-diisocyanato-, homopolymer, polyethylene glycol mono-Me etherblocked LC50 - for Fish 28,3 mg/l/96h Danio Rerio EC50 - for Crustacea > 100 mg/l/48h Daphnia magna

Reaction mass of ethylbenzene and m-xylene and p-xylene

LC50 - for Fish 2,6 mg/l/96h p-xilene

12.2. Persistence and degradability

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable 83% (28 d, OECD 301 F)

ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

N-BUTYL ACETATE
Solubility in water 1000 - 10000 mg/l
Rapidly degradable >90% (28 d)

HEXAMETHYLENE-DI-ISOCYANATE

NOT rapidly degradable

 $Hexane,\,1,6-diisocyanato-,\,homopolymer,\,polyethylene\,glycol\,mono-Me\,\,etherblocked$

NOT rapidly degradable 2%, 28 d

Reaction mass of ethylbenzene and m-xylene and p-xylene

Rapidly degradable

12.3. Bioaccumulative potential



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SECTION 12. Ecological information .../>>

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2 Log Kow 20°C - OECD 117

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 BCF 30

N-BUTYL ACETATE

Partition coefficient: n-octanol/water 2,3 25°C - OECD 117

BCF 15,3

Reaction mass of ethylbenzene and m-xylene and p-xylene BCF 25,9

12.4. Mobility in soil

Information not available

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 ≥ 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.

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.

Waste transportation may be subject to ADR restrictions.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 1866

14.2. UN proper shipping name

ADR / RID: RESIN SOLUTION IMDG: RESIN SOLUTION IATA: RESIN SOLUTION



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SECTION 14. Transport information .../>>

14.3. Transport hazard class(es)

ADR / RID:

Class: 3

Label: 3

IMDG:

Class: 3

Label: 3

IATA:

Class: 3

Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID:

IMDG:

not marine pollutant

IATA:

14.6. Special precautions for user

ADR / RID:

HIN - Kemler: 33

Limited Quantities: 5 It

Tunnel restriction code: (D/E)

IMDG: IATA:

Special provision: 640C

EMS: F-E, <u>S-E</u>

Limited Quantities: 5 lt Maximum quantity: 60 L

Packaging instructions: 364 Packaging instructions: 353

Passengers:

Cargo:

Maximum quantity: 5 L

Special provision:

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:

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point

3 - 40

Contained substance

75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

Substances subject to the Rotterdam Convention:

Substances subject to the Stockholm Convention:

ΕN



NORD RESINE S.p.A.

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SECTION 15. Regulatory information .../>>

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Two-pack reactive performance coatings for specific end use such as floors.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

2-METHOXY-1-METHYLETHYL ACETATE

ETHYL ACETATE

N-BUTYL ACETATE

Reaction mass of ethylbenzene and m-xylene and p-xylene

SECTION 16. Other information

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

Flam. Liq. 2 Flammable liquid, category 2 Flam. Liq. 3 Flammable liquid, category 3 Acute toxicity, category 1 Acute Tox. 1 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 sensitization, category 1 Skin Sens. 1 Skin Sens. 1B Skin sensitization, category 1B

Hazardous to the aquatic environment, chronic toxicity, category 3 **Aquatic Chronic 3** Highly flammable liquid and vapour.

H226 Flammable liquid and vapour. Fatal if inhaled. H330 Harmful if swallowed H302

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 eve irritation. H315 Causes skin irritation. H335 May cause respiratory irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction. H317 H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking. **EUH204** Contains isocyanates. May produce an allergic reaction.

H225

- 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
- 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



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SECTION 16. Other information .../>>

- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- 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: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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- 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
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- 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)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- 23. Delegated Regulation (UE) 2023/707
- 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
- 25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
- 26. Delegated Regulation (UE) 2024/197 (XXI 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 in Section 12.



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SECTION 16. Other information .../>>

NORD

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 04 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16. ΕN