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(TV)

## **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

2311 Code:

Product name CARBO GEL (B)

HSD0-R0HN-G00P-MRSP

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

Intended use Universal resin for FRP systems not subject to technical assessment certificate

(CVT)

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

Italia

Tel. +39 0438-437511 +39 0438-435155 Fax

e-mail address of the competent person

responsible for the Safety Data Sheet annabreda@nordresine.com

NORD RESINE S.p.A. Supplier:

1.4. Emergency telephone number

Ireland For urgent inquiries refer to

**National Poisons Information Centre** 

+353 018092166 +353 018092566

Malta Competition and Consumer Affairs Authority (MCCAA)

+356 2395 2000

Relaium

Centre Antipoisons: +32 022649636

Germany

BfR Bundesinstitut für Risikobewertung: +49 30184120

National Poisons Information Center / University Medical Center Utrecht

+31 88 75 585 61

Croatia

Croatian Institute of Public Health, Division for Toxicology: +38514686910

Sveden

Swedish Poisons Information Centre: +46104566750

## **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.





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#### SECTION 2. Hazards identification .../>>

Hazard classification and indication:

Acute toxicity, category 4 H302 Harmful if swallowed.

Skin corrosion, category 1A H314 Causes severe skin burns and eye damage.

Serious eye damage, category 1 H318 Causes serious eye damage.
Skin sensitization, category 1A H317 May cause an allergic skin reaction.

Hazardous to the aquatic environment, chronic H412 Harmful to aquatic life with long lasting effects.

toxicity, category 3

#### 2.2. Label elements

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

Hazard pictograms:





Signal words: Danger

Hazard statements:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.H317 May cause an allergic skin reaction.

**H412** Harmful to aquatic life with long lasting effects.

Precautionary statements:

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

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

do. Continue rinsing.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

P310 Immediately call a POISON CENTER / doctor.
P264 Wash thoroughly with water and soap after handling.

Contains: Trimethylhexamethylenediame

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-,POLYMER WITH

 $\hbox{5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE\ AND\ (CHLOROMETHYL)OXIRANE}$ 

BENZYL ALCOHOL

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: 195,46 Limit value: 500,00

- Catalysed with: 200,00 % CARBO GEL (A)

#### 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**



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## SECTION 3. Composition/information on ingredients .../>>

3.2. Mixtures

Contains:

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

**BENZYL ALCOHOL** 

INDEX 603-057-00-5 35 ≤ x < 50 Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1B H317

EC 202-859-9 LD50 Oral: 1200 mg/kg CAS 100-51-6

CAS 100-51-6 REACH Reg. 01-2119492630-38

PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-,POLYMER WITH 5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND

(CHLOROMETHYL)OXIRANE

INDEX  $25 \le x < 35$  Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3

H412

EC 500-101-4 CAS 38294-64-3 REACH Reg. 01-2119965165-33 Trimethylhexamethylenediame

INDEX 7 ≤ x < 11 Acute Tox. 4 H302, Skin Corr. 1A H314, Eye Dam. 1 H318, Skin Sens. 1A

H317

EC 247-063-2 Skin Corr. 1B H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% -

Irrit. 2 H315: ≥ 1% - < 5%

CAS 25513-64-8 LD50 Oral: 910 mg/kg

REACH Reg. 01-2119560598-25

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

INDEX 612-067-00-9 7 ≤ x < 11 Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A

H317

EC 220-666-8 Skin Sens. 1A H317: ≥ 0,001% CAS 2855-13-2 LD50 Oral: 1030 mg/kg

REACH Reg. 01-2119514687-32

TOLUENE

INDEX 601-021-00-3 0 < x < 0,1 Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin

Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 3 H412

EC 203-625-9 CAS 108-88-3

REACH Reg. 01-2119471310-51

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. Rinse your mouth with running water. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

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



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#### SECTION 4. First aid measures .../>>

product.

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

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

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

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.



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## SECTION 7. Handling and storage .../>>

### 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

## SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

Regulatory references:

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 si 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 EU	United Kingdom OEL EU	EH40/2005 Workplace exposure limits (Fourth Edition 2020) 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

@EPY 11.8.0 - SDS 1004.14



## NORD RESINE S.p.A. 23U - CARBO GEL (B)

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

				Т	OLUENE					
hreshold Limit V										
Type	Country	TWA/8h			STEL/15min		Remar	ks / Observa	itions	
		mg/m3	ppm			ppm				
TLV	CZE	192	50,112			100,224	SKIN			
AGW	DEU	190	50		760	200	SKIN			
MAK	DEU	190	50		380	100	SKIN			
VLA	ESP	192	50		384	100	SKIN			
VLEP	FRA	76,8	20		384	100	SKIN			
TLV	GRC	192	50		384	100				
AK	HUN	192	50		384	100	SKIN			
GVI/KGVI	HRV	192	50		384	100	SKIN			
VLEP	ITA	192	50				SKIN	Allegato XX	XXVIII D.Lgs	. 81/08
TGG	NLD	150			384					
VLE	PRT	192	50		384	100	SKIN			
NDS/NDSCh	POL	100			200		SKIN			
TLV	ROU	192	50		384	100	SKIN			
ПДК	RUS	50			150			П		
MV	SVN	192	50		384	100	SKIN			
WEL	GBR	191	50		384	100	SKIN			
OEL	EU	192	50		384	100	SKIN			
TLV-ACGIH			20							
Predicted no-effe	ct concentra	tion - PNEC								
Normal value in	fresh water							0,68	mg/l	
Normal value in	marine wate	er						0,68	mg/l	
Normal value for	or fresh water	sediment						16,39	mg/kg/d	
Normal value for	or marine wat	er sediment						16,39	mg/kg/d	
Normal value of	f STP microo	rganisms						13,61	mg/l	
		ial compartment						2,89	mg/kg/d	
Health - Derived r	no-effect lev	el - DNEL / DMI	EL						5 5	
	Effe	cts on consume	rs			Effects	on worke	ers		
Route of expos	ure Acu	te Acute		Chronic	Chronic	Acute		Acute	Chronic	Chronic
	loca	l system	ic	local	systemic	local		systemic	local	systemic
Inhalation	226	226		56,5	56,5	384		384	192	192
	mg/ı	m3 mg/m3		mg/m3	mg/m3	mg/m3		mg/m3	mg/m3	mg/m3
Skin	LOV			NPI	226	LOW		NPI	NPI	384
					mg/kg bw/c	d				mg/kg
					0 0					bw/d

				BENZ	YL ALCOHO	L				
hreshold Limit V	alue									
Type	Country	r TWA/8h STI			STEL/15min	EL/15min Rema		narks / Observations		
		mg/m3	ppm	r	ng/m3	ppm				
TLV	CZE	40	8,88		80	17,76				
AGW	DEU	22	5		44	10	SKIN	11		
MAK	DEU	22	5		44	10	SKIN			
NDS/NDSCh	POL	240								
ПДК	RUS				5			П		
MV	SVN	22	5		44	10	SKIN			
redicted no-effec	ct concentra	ation - PNEC								
Normal value in	fresh water							1	mg/l	
Normal value in	marine water	er						0,1	mg/l	
Normal value fo	r fresh wate	r sediment						5,27	mg/kg	
Normal value fo	r marine wa	ter sediment						0,527	mg/kg	
Normal value fo	r water, inte	rmittent release	)					2,3	mg/l	
Normal value of	STP microc	organisms						39	mg/l	
Normal value fo		•	nt					0.45	mg/kg	
lealth - Derived n								,	0 0	
	Effe	cts on consume	ers			Effect	s on worke	ers		
Route of exposu	ıre Acu	te Acute		Chronic	Chronic	Acute		Acute	Chronic	Chronic
·	loca	ıl syster	nic	local	systemic	local		systemic	local	systemic
Oral		20			4			•		•
		mg/kg	bw/d		mg/kg bw	/d				
Inhalation		27			5,4			110		22
		mg/m	3		mg/m3			mg/m3		mg/m3
Skin		20			4			40		8
		mg/kg	bw/d		mg/kg bw	/d		mg/kg		mg/kg
					5,9			bw/d		bw/d



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			THYL-3,5,5-TRI		OHEAT EATH					
redicted no-effect cor		- PNEC								
Normal value in fresh water 0,06 mg/l  Normal value in marine water 0,006 mg/l										
Normal value in marir	mg/l									
Normal value for fres	5,784	mg/kg/d								
Normal value for marine water sediment 0,578										
Normal value for marine water, intermittent release 0,23 mg/l										
Normal value of STP microorganisms 3,18 mg/l										
Normal value for the	terrestrial co	mpartment				1,121	mg/kg/d			
ealth - Derived no-eff	ect level - D	NEL / DMEL								
	Effects or	n consumers			Effects on we	orkers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic		
	local	systemic	local	systemic	local	systemic	local	systemic		
Oral			0,300	0,300						
			mg/kg bw/d	mg/kg bw/d						
Inhalation					0,073	0,073				
					mg/m3	mg/m3				

Trimethylhexamethylenediame								
102	μg/L							
315	μg/L							
622	μg/kg							
62	μg/kg							
10,2	μg/L							
72	mg/l							
10	mg/kg							
NPI								
	315 622 62 10,2 72 10							

He	ealth - Derived no-effe	ct level - DNI Effects on c				Effects on worke	re		
	Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
		local	systemic	local	systemic	local	systemic	local	systemic
	Oral		NEA		50,0 μg/kg				
	Inhalation		NEA	NEA	NEA	HIGH	NPI	HIGH	NPI
	Skin		NEA	NEA	NEA	HIGH	HIGH	HIGH	HIGH

PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-,POLYMER WITH								
5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND (CHLOROMETHYL)OXIRANE								
Predicted no-effect concentration - PNEC								
Normal value in fresh water	11,1	μg/L						
Normal value in marine water	111	μg/L						
Normal value for fresh water sediment	4320	mg/kg						
Normal value for marine water sediment	432	mg/kg						
Normal value for water, intermittent release	0,111	mg/l						
Normal value for marine water, intermittent release	1,11	μg/L						
Normal value of STP microorganisms	10	mg/l						
Normal value for the food chain (secondary poisoning)	1	mg/kg						
Normal value for the terrestrial compartment	864	mg/kg						
Normal value for the atmosphere	NPI							

Health - Derived no-effe		NEL / DMEL			Effects on v	vorkoro		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		NPI		50,0 μg/kg				
Inhalation		NPI	HIGH	74,0 μg/m³	HIGH	NPI	HIGH	493,0 μg/m³
Skin		NPI	HIGH	50,0 μg/kg	HIGH	NPI	HIGH	140,0 µg/kg

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 ; LOW = low

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



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

#### 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.

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 time

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

Thickness: 0,06 mm Breakthrough time: 480 min

Material: Viton or fluoroelastomer (FKM)

Thickness: 0,3 mm

Breakthrough time: 480 min

Material: Butyl rubber (IIR) Thickness: 0,5 mm

Breakthrough time: 480 min SKIN PROTECTION

Wear category III 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 a hood visor or protective visor combined with airtight goggles (see standard EN ISO 16321).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

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 A 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		AMBER LIKE	
Odour		amino	
Melting point / freezing point		not determined	Reason for missing data:not determined
Initial boiling point	>	100 °C	
Flammability		not determined	
Lower explosive limit		not determined	Reason for missing data:not determined
Upper explosive limit		not determined	Reason for missing data:not determined
Flash point	>	100 °C	
Auto-ignition temperature		not determined	Reason for missing data:not determined
Decomposition temperature		not determined	Reason for missing data:not determined
pH		11	
Kinematic viscosity		not determined	Reason for missing data: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		1,03	
Relative vapour density		not determined	Reason for missing data:not determined



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SECTION 9. Physical and chemical properties

Particle characteristics not applicable

Supplementary information for nanoforms

Silicon dioxide

Shape 1:

Category spheroidal Shape spherical

Crystallinity

Crystalline structure 1:

Structure amorphous

Surface functionalisation / treatment

Surface treatments 1:

Surface treatment applied no

#### 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 2004/42/EC): 53,28 % - 548,79 g/litre VOC (volatile carbon) 40,62 % - 418,42 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.

TOLUENE

Avoid exposure to: light.

BENZYL ALCOHOL

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

## 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.

#### **TOLUENE**

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

BENZYL ALCOHOL

May react dangerously with: hydrobromic acid,iron,oxidising agents,sulphuric acid.Risk of explosion on contact with: phosphorus trichloride.

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

May react dangerously with: strong oxidising agents, concentrated inorganic acids.

#### 10.4. Conditions to avoid

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

BENZYL ALCOHOL

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

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Avoid contact with: strong acids, strong oxidants.

## 10.5. Incompatible materials

BENZYL ALCOHOL





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

Incompatible with: sulphuric acid,oxidising substances,aluminium.

10.6. Hazardous decomposition products

Information not available

## **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

Information not available

Information on likely routes of exposure

**TOLUENE** 

WORKERS: inhalation; contact with the skin.

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

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

TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Interactive effects

TOLUENE

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

ACUTE TOXICITY

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

ATE (Oral) of the mixture: 1551,97 mg/kg

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

TOLUENE

 LD50 (Dermal):
 12124 mg/kg Rabbit

 LD50 (Oral):
 5580 mg/kg Rat

 LC50 (Inhalation vapours):
 28,1 mg/l/4h Rat

BENZYL ALCOHOL

 LD50 (Dermal):
 2000 mg/kg Rabbit

 LD50 (Oral):
 1200 mg/kg

 LC50 (Inhalation vapours):
 > 4,1 mg/l/4h Rat

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE LD50 (Oral): 1030 mg/kg

Trimethylhexamethylenediame

LD50 (Oral): 910 mg/kg (rat)

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION



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### SECTION 11. Toxicological information .../>>

Sensitising for the skin

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### TOLUENE

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

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

#### 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**

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

TOLUENE

 LC50 - for Fish
 5,5 mg/l/96h

 EC50 - for Crustacea
 3,78 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 > 134 mg/l/72h

BENZYL ALCOHOL

LC50 - for Fish 10 mg/l/96h Bluegill

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

LC50 - for Fish 110 mg/l/96h Fish EC50 - for Crustacea 23 mg/l/48h Daphnia

Trimethylhexamethylenediame

LC50 - for Fish

EC50 - for Algae / Aquatic Plants

EC10 for Crustacea

Chronic NOEC for Fish

Chronic NOEC for Crustacea

Chronic NOEC for Crustacea

Chronic NOEC for Algae / Aquatic Plants

174 mg/l/48h

43,5 mg/l/72h

1,02 mg/L/504h

10,9 mg/L/720h

10,9 mg/L/720h

10,0 mg/l

10 mg/l

#### PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-,POLYMER WITH 5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND

(CHLOROMETHYL)OXIRANE

 LC50 - for Fish
 70,7 mg/l/96h

 EC50 - for Algae / Aquatic Plants
 79,4 mg/l/72h





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#### SECTION 12. Ecological information .../>>

### 12.2. Persistence and degradability

**TOLUENE** 

Solubility in water 100 - 1000 mg/l

Rapidly degradable

BENZYL ALCOHOL Rapidly degradable

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Solubility in water 1000 - 10000 mg/l

NOT rapidly degradable

Trimethylhexamethylenediame

Solubility in water 1 g/l

NOT rapidly degradable

PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-,POLYMER WITH 5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND

(CHLOROMETHYL)OXIRANE

Solubility in water 22,18 g/l

#### 12.3. Bioaccumulative potential

**TOLUENE** 

Partition coefficient: n-octanol/water 2,73 BCF 90

BENZYL ALCOHOL

Partition coefficient: n-octanol/water 1,1

Trimethylhexamethylenediame

Partition coefficient: n-octanol/water -0,3

PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-,POLYMER WITH 5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND

(CHLOROMETHYL)OXIRANE

Partition coefficient: n-octanol/water 3,6

#### 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.





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## **SECTION 14. Transport information**

#### 14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 2735

#### 14.2. UN proper shipping name

ADR / RID:
AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. IMDG:
AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

#### 14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



#### 14.4. Packing group

ADR / RID, IMDG, IATA: III

#### 14.5. Environmental hazards

ADR / RID: NO

IMDG: not marine pollutant

IATA: NO

#### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 80 Limited Quantities: 5 L Tunnel restriction code: (E)

Special provision: 274

IMDG: EMS: F-A, S-B Limited Quantities: 5 L

IATA: Cargo: Maximum quantity: 60 L Packaging instructions: 856
Passengers: Maximum quantity: 5 L Packaging instructions: 852

Special provision: A3, A803

#### 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

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

Product

Point 3 - 40

Contained substance

Point 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%.

EPY 11.8.0 - SDS 1004.14



# NORD RESINE S.p.A.

23U - CARBO GEL (B)

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### SECTION 15. Regulatory information ... / >

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

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.

VOC (Directive 2004/42/EC):

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 BENZYL ALCOHOL

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

#### SECTION 16. Other information

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

Flam. Liq. 2 Flammable liquid, category 2
Repr. 2 Reproductive toxicity, 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
Skin Corr. 1A Skin corrosion, category 1A

Skin Corr. 1B Skin corrosion, category 1B Skin Corr. 1C Skin corrosion, category 1C Eye Dam. 1 Serious eye damage, category 1 Eve Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2 Skin sensitization, category 1 Skin Sens. 1 Skin Sens. 1A Skin sensitization, category 1A Skin Sens. 1B Skin sensitization, category 1B

**STOT SE 3** Specific target organ toxicity - single exposure, category 3 **Aquatic Chronic 3** Hazardous to the aquatic environment, chronic toxicity, category 3

H225 Highly flammable liquid and vapour.H361d Suspected of damaging the unborn child.

H302 Harmful if swallowed.

**H304** May be fatal if swallowed and enters airways.

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

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

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

**H412** Harmful to aquatic life with long lasting effects.

#### 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
- 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).

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- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
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- 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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- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
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- 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.





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SECTION 16. Other information .../>>

### 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.

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