



# 160 - W3 IMPERMEABILIZZANTE (B)

Revision nr.5 Dated 17/09/2024 Printed on 17/09/2024
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Replaced revision:4 (Dated 08/09/2021)

(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

Code: 160

Product name W3 IMPERMEABILIZZANTE (B)

C5C0-40E3-P009-28QF

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

TRICOMPONENT EPOXY COATING. Intended use

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 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 Ireland

**National Poisons Information Centre** 

+353 018092166 +353 018092566

Malta Competition and Consumer Affairs Authority (MCCAA)

+356 2395 2000

**Belgium** 

Centre Antipoisons: +32 022649636

BfR Bundesinstitut für Risikobewertung: +49 30184120

Netherlands

National Poisons Information Center / University Medical Center Utrecht

+31 88 75 585 61

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

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:

H318 Serious eye damage, category 1 Causes serious eye damage.

Skin irritation, category 2 H315 Causes skin irritation.

Skin sensitization, category 1A H317 May cause an allergic skin reaction.

Hazardous to the aquatic environment, chronic H411 Toxic to aquatic life with long lasting effects.

toxicity, category 2

#### 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:

H318 Causes serious eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. H411

Precautionary statements:

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

do. Continue rinsina.

P280 Wear protective gloves / eye protection / face protection.

Immediately call a POISON CENTER / doctor. P310

P273 Avoid release to the environment.

P391 Collect spillage.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

Contains: Fatty acids, C18-unsatd, dimers, polymers with tall-oil fatty acids and triethylenetetramine

Formaldehyde, polymer with N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]-1,2-ethanediamine, 2,

2'-[1,4-butanediylbis(oxymethyle)]

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

MALEIC ANHYDRIDE

Amines, polyethylenepoly-, triethylenetetramine fraction Amines, polyethylenepoly-, tetraethylenepentamine fraction

N,N-dimethyl-1,3-diaminopropane

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

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ 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)

Fatty acids, C18-unsatd, dimers, polymers with tall-oil fatty acids and triethylenetetramine

*INDEX* 20 ≤ x < 25 Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Chronic 2

H411

EC 500-191-5 CAS 68082-29-1 REACH Reg. 01-2119972320-44 1-METHOXY-2-PROPANOL

INDEX 603-064-00-3  $5 \le x < 7$  Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-539-1 CAS 107-98-2 REACH Reg. 01-2119457435-35

Formaldehyde, polymer with N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]-1,2-ethanediamine, 2,

2'-[1,4-butanediylbis(oxymethyle)]

INDEX  $3 \le x < 5$  Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 885-937-0 CAS 180583-06-6

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

INDEX 603-069-00-0 1 ≤ x < 3 Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318

EC 202-013-9 ATE Oral: 500 mg/kg

CAS 90-72-2

REACH Reg. 01-2119560597-27 N,N-dimethyl-1,3-diaminopropane

INDEX 612-061-00-6 0.5 ≤ x < 1 Flam. Lig. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B

H314, Eye Dam. 1 H318, STOT SE 3 H335, Skin Sens. 1 H317

EC 203-680-9 LD50 Oral: 410 mg/kg, LD50 Dermal: >1000 mg/kg

CAS 109-55-7 REACH Reg. 01-2119486842-27

Amines, polyethylenepoly-, tetraethylenepentamine fraction

INDEX 0,1 ≤ x < 0,5 Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1

H318, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 292-587-7 ATE Oral: 500 mg/kg, LD50 Dermal: 1260 mg/kg

CAS 90640-66-7 REACH Reg. 01-2119487290-37

Amines, polyethylenepoly-, triethylenetetramine fraction

INDEX 0,1 ≤ x < 0,5 Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1

H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412

EC 292-588-2 ATE Oral: 500 mg/kg, ATE Dermal: 1100 mg/kg

CAS 90640-67-8 REACH Reg. 01-2119487919-13

MALEIC ANHYDRIDE

INDEX 607-096-00-9 0 < x < 0,001 Acute Tox. 4 H302, STOT RE 1 H372, Skin Corr. 1B H314, Eye Dam. 1 H318,

Resp. Sens. 1 H334, Skin Sens. 1A H317, EUH071

 EC
 203-571-6
 Skin Sens. 1A H317: ≥ 0,001%

 CAS
 108-31-6
 LD50 Oral: 1090 mg/kg

REACH Reg. 01-2119472428-31

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 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



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

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

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



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#### SECTION 6. Accidental release measures ..../>>

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. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. 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.

#### 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 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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				1-METHO	XY-2-PROPAN	OL				
hreshold Limit V	/alue									
Type	Country	TWA/8h			STEL/15min		Remar	ks / Observa	ations	
		mg/m3	ppm	ı	mg/m3	ppm				
TLV	CZE	270	72,09		550	146,85	SKIN			
AGW	DEU	370	100		740	200				
MAK	DEU	370	100			200				
VLA	ESP	375	100		568	150	SKIN			
VLEP	FRA	188	50		375	100	SKIN			
TLV	GRC	360	100		1080	300				
AK	HUN	375	100		568	150	SKIN			
GVI/KGVI	HRV	375	100		568	150				
VLEP	ITA	375	100		568	150	SKIN	Allegato X	XXVIII D.Lgs	. 81/08
TGG	NLD	375			563		SKIN			
VLE	PRT	375	100		568	150				
NDS/NDSCh	POL	180			360		SKIN			
TLV	ROU	375	100		568	150	SKIN			
MV	SVN	375	100		568	150	SKIN			
WEL	GBR	375	100		560	150	SKIN			
OEL	EU	375	100		568	150	SKIN			
TLV-ACGIH		184	50		368	100				
redicted no-effe	ct concentr	ation - PNEC								
Normal value in	rfresh water							10	mg/l	
Normal value in	n marine wat	er						1	mg/l	
Normal value for	or fresh wate	r sediment						52,3	mg/kg	
Normal value for	or marine wa	ter sediment						5,2	mg/kg	
Normal value for	or water, inte	rmittent release						100	mg/l	
Normal value of	f STP micro	organisms						100	mg/l	
Normal value for	or the terrest	rial compartment						4,59	mg/kg	
ealth - Derived r	no-effect lev	el - DNEL / DME	L							
	Effe	cts on consumers	6			Effect	s on worke	ers		
Route of expos	ure Acu	ite Acute		Chronic	Chronic	Acute		Acute	Chronic	Chronic
	loca	- <b>,</b>	;	local	systemic	local		systemic	local	systemic
Oral		NPI			33 mg/kg bw/d					
Inhalation		NPI		NPI	43,9 mg/m3	553,5 mg/m		553,5 mg/m3	NPI	369 mg/m3
Skin		NPI		NPI	78 mg/kg bw/d	NPI		NPI	NPI	183 mg/kg
										bw/d



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				MALE	C ANHYDRID	E				
hreshold Limit V										
Туре	Country	TWA/8h			STEL/15min		Remar	ks / Observa	ations	
		mg/m3	ppm	l	mg/m3	ppm				
TLV	CZE	1	0,245		2	0,49				
AGW	DEU	0,081	0,02		0,081	0,02		11		
MAK	DEU	0,081	0,02		0,081 (C)	0,02 (C)		C = 0.20  m	ıg/m3	
VLA	ESP	0,4	0,1							
VLEP	FRA				1					
TLV	GRC	1								
AK	HUN	0,08	0,2		0,08	0,2				
GVI/KGVI	HRV	0,41	0,1		0,8	0,2	INHAL			
GVI/KGVI	HRV	0,41	0,1		0,8	0,2	SKIN			
NDS/NDSCh	POL	0,5			1		SKIN			
TLV	ROU	1	0,25		3	0,75				
ПДК	RUS				1			п + а, А		
MV	SVN	0,41	0,1		0,41	0,1				
WEL	GBR	1			3					
TLV-ACGIH		0,01	0,0025				INHAL			
redicted no-effe	ct concentra	ation - PNEC								
Normal value in	fresh water							0,038	mg/l	
Normal value in	marine water	er						0,004	mg/l	
Normal value for	r fresh wate	r sediment						0,296	mg/kg/d	
Normal value for	r marine wa	ter sediment						0,03	mg/kg/d	
Normal value of	STP micro	organisms						44,6	mg/l	
Normal value for			nt					0.037	mg/kg/d	
lealth - Derived r									0 0	
	Effe	cts on consume	ers			Effects	on worke	rs		
Route of expos				Chronic	Chronic	Acute		Acute	Chronic	Chronic
	loca	ıl syster	nic	local	systemic	local		systemic	local	systemic
Inhalation		,			,	0,2		0,2	0,081	0,081
						mg/m3		mg/m3	mg/m3	mg/m3

			N,N-dimethyl-	1,3-diaminopr	opane			
Predicted no-effect co	ncentration	- PNEC						
Normal value in fresh	n water					0,0728	mg/l	
Normal value in mari	ne water					0,00728	mg/l	
Normal value for fres	h water sedi	ment				0,735	mg/kg/d	
Normal value for mar	rine water se	diment				0,0735	mg/kg/d	
Normal value for mar	rine water, in	termittent releas	e			0,34	mg/l	
Normal value of STP	microorgani	sms				10	mg/l	
Normal value for the	terrestrial co	mpartment				0,104	mg/kg/d	
Health - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on v	workers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation								1,2 mg/m3

		Amines, po	lyethylenepoly	-, triethylenetet	tramine fract	ion		
redicted no-effect cor	ncentration	- PNEC						
Normal value in fresh water 0,0268 mg/l								
Normal value for fres	h water sedi	iment				8,572	mg/kg/d	
Normal value for mar	ine water se	ediment				0,8572	mg/kg/d	
Normal value for marine water, intermittent release 0,2 mg/l								
Normal value for fresh water, intermittent release 0,02 mg/l								
Normal value of STP microorganisms 0,13 mg/l								
lealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects of	n consumers			Effects on v	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral			VND	0,14				
				mg/kg bw/d				
Inhalation				0,096			VND	0,54
				mg/m3				mg/m3



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Fa	atty acids, (	C18-unsatd, dim	ers, polymers	with tall-oil fatt	acids and t	riethylenetetran	nine	
redicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	n water					0,00434	mg/l	
Normal value in mari	ne water					0,00043	mg/l	
						4		
Normal value for fres	h water sed	iment				434,02	mg/kg	
Normal value for mar	ine water se	ediment				43,4	mg/kg	
ealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects o	n consumers			Effects on w	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				0,56				
				mg/kg bw/d				
Inhalation				0,97				3,9
				mg/m3				mg/m3
Skin				0,56				1,1
				mg/kg bw/d				mg/kg
				·				bw/d

		Amines, poly	ethylenepoly-,	tetraethylenep	entamine fra	ction		
Predicted no-effect cor	ncentration	- PNEC		-				
Normal value in fresh	water					0,01	mg/l	
Normal value in marir	ne water					0,001	mg/l	
Normal value for fres	h water sedi	ment				3,198	mg/kg/d	
Normal value for mar	ine water se	diment				0,3198	mg/kg/d	
Normal value for mar	ine water, in	termittent releas	е			0,068	mg/l	
Normal value for fres	h water, inte	rmittent release				0,0068	mg/l	
Normal value of STP microorganisms 4,6 mg/l								
Normal value for the terrestrial compartment 2,5 mg/kg/d								
lealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on v	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		NPI		0,21				
				mg/kg bw/d				
Inhalation	HIGH		HIGH	0,14	HIGH		HIGH	0,82
				mg/m3				mg/m3
Skin	HIGH	HIGH	0,0208	NPI	HIGH	HIGH	0,25	NPI
			mg/cm2				mg/cm2	

	2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL									
Predicted no-effect cor	ncentration	- PNEC								
Normal value in fresh	water					0,046	mg/l			
Normal value in marir	ne water					0,005	mg/l			
Normal value for mar	ine water, in	termittent release	е			0,46	mg/l			
Normal value of STP	microorgani	sms				0,262	mg/l			
Normal value for the	Normal value for the terrestrial compartment 0,025 mg/kg									
Health - Derived no-effect level - DNEL / DMEL										
	Effects or	n consumers			Effects on	workers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic		
	local	systemic	local	systemic	local	systemic	local	systemic		
Oral				0,075						
				mg/kg bw/d						
Inhalation		0,13		0,13		2,1		0,53		
		mg/m3		mg/m3		mg/m3		mg/m3		
Skin		0,075		0,075		0,6		0,15		
		mg/kg bw/d		mg/kg bw/d		mg/kg		mg/kg		
						bw/d		bw/d		

#### Legend:

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

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

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

#### 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



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

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

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: Butyl rubber (IIR) Thickness: 0,5 mm Breakthrough time: 480 min SKIN PROTECTION

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

**EYE PROTECTION** 

Wear airtight protective goggles (see standard EN 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 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 Appearance Colour Odour	Value liquid yellow amino	Information
Melting point / freezing point Initial boiling point Flammability	not determined > 100 °C not determined	Reason for missing data:not determined
Lower explosive limit Upper explosive limit Flash point	not determined not determined > 65 °C	Reason for missing data:not determined Reason for missing data:not determined
Auto-ignition temperature Decomposition temperature pH	not determined not determined 11	Reason for missing data:not determined Reason for missing data:not determined
Kinematic viscosity Solubility Partition coefficient: n-octanol/water	not determined partially soluble in water not applicable	Reason for missing data:not determined
Vapour pressure Density and/or relative density	not determined 1,02	Reason for missing data:not determined
Relative vapour density Particle characteristics	not determined not applicable	Reason for missing data:not determined

#### 9.2. Other information





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#### SECTION 9. Physical and chemical properties .../>>

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)

5,94 % - 60,54

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.

#### 1-METHOXY-2-PROPANOL

Dissolves various plastic materials. Stable in normal conditions of use and storage.

Absorbs and disolves in water and in organic solvents. With air it may slowly form explosive peroxides.

#### 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.

### 1-METHOXY-2-PROPANOL

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

#### 10.4. Conditions to avoid

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

#### 1-METHOXY-2-PROPANOL

Avoid exposure to: air.

## 10.5. Incompatible materials

### 1-METHOXY-2-PROPANOL

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

N,N-dimethyl-1,3-diaminopropane

Incompatible with: copper,strong acids,oxidising agents,brass.

Amines, polyethylenepoly-, tetraethylenepentamine fraction

 $Incompatible\ with: acids, chlorinated\ hydrocarbons, oxidising\ agents, copper, cobalt, nickel, copper\ alloys.$ 

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

Incompatible with: organic acids, mineral acids, sodium hypochlorite.

### 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.

#### N,N-dimethyl-1,3-diaminopropane

In decomposition develops: nitrous gases, carbon dioxide, carbon monoxide.

Amines, polyethylenepoly-, tetraethylenepentamine fraction

May develop: nitrous gases.

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

In decomposition develops: nitric acid,ammonia,nitrogen oxides (NOx),carbon dioxide.

#### **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



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

1-METHOXY-2-PROPANOL

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

#### 1-METHOXY-2-PROPANOL

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product. 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.

Interactive effects

Information not available

ACUTE TOXICITY

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

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

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

1-METHOXY-2-PROPANOL

2000 mg/kg Rat LD50 (Dermal): LD50 (Oral): 4016 mg/kg Rat

MALEIC ANHYDRIDE

LD50 (Dermal): 2620 mg/kg Rabbit LD50 (Oral): 1090 mg/kg Rat

N,N-dimethyl-1,3-diaminopropane

LD50 (Dermal): > 1000 mg/kg 410 mg/kg LD50 (Oral):

Amines, polyethylenepoly-, triethylenetetramine fraction

LD50 (Dermal):

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): 2500 mg/kg Rat

Fatty acids, C18-unsatd, dimers, polymers with tall-oil fatty acids and triethylenetetramine

LD50 (Dermal): > 2000 mg/kg Rat > 2000 mg/kg Rat LD50 (Oral):

Amines, polyethylenepoly-, tetraethylenepentamine fraction

LD50 (Dermal): 1260 mg/kg Rabbit I D50 (Oral): 3221 mg/kg Rat

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

LD50 (Oral): 2169 mg/kg Rat

ATE (Oral): 500 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)

#### SKIN CORROSION / IRRITATION

Causes skin irritation

N,N-dimethyl-1,3-diaminopropane

Species: rabbit Result: causes burns Method: OECD 404

Amines, polyethylenepoly-, triethylenetetramine fraction

Species: rabbit Result: corrosive Method: OECD 404





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

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

Species: rabbit Result: corrosive Method: OECD 404

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

Amines, polyethylenepoly-, triethylenetetramine fraction

Species: rabbit

Result: irreversible damage Method: OECD 405

#### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

MALEIC ANHYDRIDE Species: rabbit

Result: skin sensitization Method: OECD 406

Amines, polyethylenepoly-, triethylenetetramine fraction

Species: Guinea pig Result: sensitizing Method: OECD 406

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### 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

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 is toxic for aquatic organisms. In the long term, it has negative effects on the aquatic environment.

### 12.1. Toxicity

1-METHOXY-2-PROPANOL

LC50 - for Fish EC50 - for Crustacea > 1000 mg/l/96h > 21100 mg/l/48h



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

MALEIC ANHYDRIDE

LC50 - for Fish 75 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 42,81 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 74,35 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Crustacea 10 mg/l Daphnia magna

Amines, polyethylenepoly-, triethylenetetramine fraction

LC50 - for Fish

EC50 - for Crustacea

EC10 for Algae / Aquatic Plants

330 mg/l/96h Fish
31 mg/l/48h Daphnia
EC10 for Algae / Aquatic Plants

1,34 mg/l/72h

Fatty acids, C18-unsatd, dimers, polymers with tall-oil fatty acids and triethylenetetramine

LC50 - for Fish 7,07 mg/l/96h Fish

Amines, polyethylenepoly-, tetraethylenepentamine fraction

LC50 - for Fish 420 mg/l/96h Fish EC50 - for Crustacea 24,1 mg/l/48h Daphnia

EC50 - for Algae / Aquatic Plants 6,8 mg/l/72h EC10 for Algae / Aquatic Plants 0,5 mg/l/72h

Formaldehyde, polymer with N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]-1,2-ethanediamine, 2, 2'-[1,4-butanediylbis(oxymethyle)]

EC50 - for Crustacea 10 mg/l/48h Daphnia magna

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

LC50 - for Fish 175 mg/l/96h Cyprinus carpio

#### 12.2. Persistence and degradability

1-METHOXY-2-PROPANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

MALEIC ANHYDRIDE

Solubility in water > 10000 mg/l

Entirely degradable

Amines, polyethylenepoly-, triethylenetetramine fraction

NOT rapidly degradable

Amines, polyethylenepoly-, tetraethylenepentamine fraction

NOT rapidly degradable

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

Solubility in water > 10000 mg/l

NOT rapidly degradable

#### 12.3. Bioaccumulative potential

1-METHOXY-2-PROPANOL

Partition coefficient: n-octanol/water < 1

MALEIC ANHYDRIDE

Partition coefficient: n-octanol/water -2,78

Amines, polyethylenepoly-, tetraethylenepentamine fraction Partition coefficient: n-octanol/water -2,6

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

Partition coefficient: n-octanol/water -0,66

#### 12.4. Mobility in soil

Information not available

#### 12.5. Results of PBT and vPvB assessment



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

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 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not

submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or

5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to

IATA dangerous goods regulations.

### 14.2. UN proper shipping name

IMDG:

IATA:

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acids, C18-unsatd, dimers, polymers with

tall-oil fatty acids and triethylenetetramine; Formaldehyde, polymer with

N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]-1, 2-ethane diamine, 2, 2'-[1,4-but an ediylbis (oxymethyle)])-1, 2-ethane diamine, 2, 2'-[1,4-but an ediylbis (oxymethyle)]-1, 2-ethane diamine, 2, 2'-[1,4-but an ediylbis (oxym

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acids, C18-unsatd, dimers, polymers with

tall-oil fatty acids and triethylenetetramine; Formaldehyde, polymer with

N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]-1,2-ethanediamine, 2, 2'-[1,4-butanediylbis(oxymethyle)])

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acids, C18-unsatd, dimers, polymers with

tall-oil fatty acids and triethylenetetramine; Formaldehyde, polymer with

N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]-1,2-ethanediamine, 2, 2'-[1,4-butanediylbis(oxymethyle)])

### 14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9



#### 14.4. Packing group

ADR / RID, IMDG, IATA: III



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#### SECTION 14. Transport information .../>>

#### 14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: Environmentally Hazardous



### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 90 Limited Quantities: 5 lt Tunnel restriction code: (-)

Special provision: 274, 335, 375, 601

IMDG: EMS: F-A, S-F Limited Quantities: 5 lt
IATA: Cargo: Maximum quantity: 450 L Packaging instr

Cargo: Maximum quantity: 450 L Packaging instructions: 964
Passengers: Maximum quantity: 450 L Packaging instructions: 964

Special provision: A97, A158, A197, A215

#### 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: E2

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%.

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.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.



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#### **SECTION 16. Other information**

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

Flam. Liq. 3 Flammable liquid, category 3
Acute Tox. 4 Acute toxicity, category 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

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

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Resp. Sens. 1 Respiratory sensitization, category 1
Skin Sens. 1 Skin sensitization, category 1
Skin Sens. 1A Skin sensitization, category 1A

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2 Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H372 Causes damage to organs through prolonged or repeated exposure.

**H314** Causes severe skin burns and eye damage.

H318 Causes serious eye damage.H315 Causes skin irritation.

**H335** May cause respiratory irritation.

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

H317 May cause an allergic skin reaction.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

**EUH071** Corrosive to the respiratory tract.

## 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
- 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).

GENERAL BIBLIOGRAPHY



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#### SECTION 16. Other information .../>>

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- 23. Delegated Regulation (UE) 2023/707
- 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
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- 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.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16.