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Replaced revision:1 (Dated 25/08/2020)

(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: **58S**

Product name **EPOGREEN COAT (A)**

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

QUICK SETTING TOP SEALER, WATERPROOFING AND ANTI-DIRT

1.3. Details of the supplier of the safety data sheet

NORD RESINE S.p.A. Name 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

NORD RESINE S.p.A. Supplier:

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:

Eye irritation, category 2 H319 Causes serious eye irritation. H317 Skin sensitization, category 1 May cause an allergic skin reaction.

Hazardous to the aquatic environment, chronic H410 Very toxic to aquatic life with long lasting effects.

toxicity, category 1

2.2. Label elements

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

Hazard pictograms:





Signal words: Warning

Hazard statements:

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.



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SECTION 2. Hazards identification .../>>

Precautionary statements:

P280 Wear protective gloves / eye protection / face protection.

P273 Avoid release to the environment.

P391 Collect spillage.

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

P333+P313 If skin irritation or rash occurs: Get medical advice / attention.

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

Contains: bis(4-(1,2-bis(etossicarbonil)-etilammino)-3-metil-cicloesil)-metano

Diethyl fumarate

reaction mass of: carbonato-bis-N-ethyl-2-isopropyl-1,3-oxazolidine

2-[4-(4-Amino-cyclohexylmethyl)-cyclohexylamido]-succinic acid diethyl ester

tetraetil n, n'-(metilendicicloesano-4,1-diil)bis-dl-aspartato

DIBUTYLTIN DILAURATE

Diethyl fumarate

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 : 140,03 Limit value: 500,00

- Catalysed with: 55,56 % EPOGREEN COAT (B)

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)

 $tetraetil\ n,\ n'\text{-}(metilendicicloes ano\text{-}4,1\text{-}diil) bis\text{-}dl\text{-}aspartato$

INDEX 607-521-00-8 $50 \le x < 75$ Skin Sens. 1B H317, Aquatic Chronic 1 H410 M=1

EC 429-270-1 CAS 136210-30-5 REACH Reg. 01-0000017556-64

bis(4-(1,2-bis(etossicarbonil)-etilammino)-3-metil-cicloesil)-metano

INDEX 607-350-00-9 11 ≤ x < 15 Skin Sens. 1 H317, Aquatic Chronic 3 H412

EC 412-060-9 CAS 136210-32-7 REACH Reg. 01-0000015937-58

Diethyl fumarate

INDEX $5 \le x < 7$ Acute Tox. 4 H302, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 210-819-7 LD50 Oral: 1367 mg/kg

CAS 623-91-6

2-[4-(4-Amino-cyclohexylmethyl)-cyclohexylamido]-succinic acid diethyl ester INDEX $5 \le x < 7$ Skin Sens. 1 H317

EC CAS

N-BUTYL ACETATE

INDEX 607-025-00-1 1 ≤ x < 3 Flam. Liq. 3 H226, STOT SE 3 H336, EUH066

EC 204-658-1 CAS 123-86-4 REACH Reg. 01-2119485493-29

reaction mass of: carbonato-bis-N-ethyl-2-isopropyl-1,3-oxazolidine

INDEX 613-250-00-6 1 ≤ x < 3 Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412

EC 429-990-6 CAS 145899-78-1 REACH Reg. 01-0000017627-63



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SECTION 3. Composition/information on ingredients/>>

Diethyl fumarate

FC.

CAS

 $0.5 \le x < 1$ Acute Tox. 4 H302, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1 H317, INDEX

Aquatic Chronic 2 H411 LD50 Oral: 1367 mg/kg

DIPROPYLENE GLYCOL MONOMETHYL ETHER

210-819-7 623-91-6

INDEX 0 < x < 0.5

EC 252-104-2 34590-94-8 CAS REACH Reg. 01-2119450011-60 **DIBUTYLTIN DILAURATE**

INDFX 050-030-00-3 0 < x < 0.25

Muta. 2 H341, Repr. 1B H360FD, STOT SE 1 H370, STOT RE 1 H372, Eye Irrit.

2 H319, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1

Substance with a community workplace exposure limit.

H410 M=1

EC 201-039-8 CAS 77-58-7

REACH Rea. 01-2119496068-27

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. 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 skin irritation or rash occurs: Get medical advice / attention

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.



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SECTION 5. Firefighting measures .../>>

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

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



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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	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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reshold Limit V	/alua	U	IPRUPTLE	NE GLYCC	DL MONOM	EIH	ILEIHER			
resnoid Limit v Type	Country	TWA/8h		91	EL/15min		Per	narks / Obse	rvations	
Туре	Country	mg/m3	ppm		g/m3	ppn		ilaiks / Obse	i valions	
TLV	CZE	270	43.74		50	89.		N		
AGW	DEU	310	50		10	50		11		
MAK	DEU	310	50		10	50		- ''		
VLA	ESP	308	50	J	10	50	, SKI	N		
VLEP	FRA	308	50				SKI			
TLV	GRC	600	100	Q	00	150		IN		
AK	HUN	308	50	30	50	10	0			
GVI/KGVI	HRV	308	50				SKI	N		
VLEP	ITA	308	50				SKI		XXXVIII D.Lo	e 81/08
TGG	NLD	300	50				SKI	- Allegate	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	JO 0 1700
VLE	PRT	308	50				SKI	N		
NDS/NDSCh	POL	240	30	15	30		SKI			
TLV	ROU	308	50	71	50		SKI			
MV	SVN	308	50				SKI			
WEL	GBR	308	50				SKI			
OEL	EU	308	50				SKI			
TLV-ACGIH	LU	300	50				OKI	IN		
edicted no-effe	ct concentr	ation - DNEC	30							
Normal value in		ALION - I INEO						19	mg/l	
Normal value in		or .						1,9	mg/l	
Normal value for								70,2	mg/kg	
Normal value for								7,02	mg/kg	
Normal value for								190	mg/l	
Normal value of	,							4168	mg/l	
		ial compartment						2,74	mg/kg	
		el - DNEL / DME						2,74	mg/kg	
aitii - Deliveu i		cts on consumer					Effects on wo	rkore		
Route of expos				hronic	Chronic		Acute	Acute	Chronic	Chronic
Troute of expos	ure Acu loca			ocal	systemic		local	systemi		systemic
Oral	100a	systemi	0 10	Juai	1,67		iocai	Systerni	o local	Systemic
Oral					mg/kg/d					
Inhalation					37,2					310
minalation					mg/m3					mg/m3
Skin					15					65
OMIT					mg/kg/d					mg/kg/d



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				N-BC	JTYL ACETAT				
nreshold Limit \		T14/4/01			OTEL 45 :		5 1 (0)		
Туре	Country	TWA/8h			STEL/15min		Remarks / Observ	ations	
T1.) /	075	mg/m3	ppm		mg/m3	ppm			
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 X	XXVIII 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		600	124			
WEL	GBR	724	150		966	200			
OEL	EU	241	50		723	150			
TLV-ACGIH			50			150			
redicted no-effe	ct concentra	ation - PNEC							
Normal value in	r fresh water						0,18	mg/l	
Normal value in	n marine wate	er					0,018	mg/l	
Normal value for	or fresh wate	r sediment					0,981	mg/kg/d	
Normal value for	or marine wa	ter sediment					0,0981	mg/kg/d	
Normal value for	or water, inte	rmittent release					0,36	mg/l	
Normal value o	f STP microc	organisms					35.6	mg/l	
		rial compartment					0,0903	mg/kg	
		el - DNEL / DME	L				-,	3- 3	
	Effe	cts on consumers	3			Effects	on workers		
Route of expos			-	Chronic	Chronic	Acute	Acute	Chronic	Chronic
. toute of expos	loca		;	local	systemic	local	systemic	local	systemic
Oral		2	=		2		5,5155		0,0100
Orai		mg/kg/d			mg/kg/d				
Inhalation	300			35,7	35,7	600	600	300	300
minalation	mg/			mg/m3	mg/m3	mg/m3		mg/m3	mg/m3
Skin	ilig/	6		ilig/ilio	6	mg/ma	11	mg/m3	11
ONIII							mg/kg		mg/kg
		mg/kg/d			mg/kg/d		mg/kg		bw/d

DIBUTYLTIN DILAURATE		
Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,00046	mg/l
	3	
Normal value in marine water	0,00004	mg/l
	63	
Normal value for fresh water sediment	0,05	mg/kg/d
Normal value for marine water sediment	0,005	mg/kg/d
Normal value for marine water, intermittent release	0,00463	mg/l
Normal value for fresh water, intermittent release	0,00463	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the food chain (secondary poisoning)	0,2	mg/kg
Normal value for the terrestrial compartment	0,0407	mg/kg
Normal value for the atmosphere	NPI	
Health Devised no effect level DNEL / DMEL		

lealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on wor	kers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		0,02 mg/kg bw/d		0,0031 mg/kg bw/d				
Inhalation	NPI	0,04 mg/m3	NPI	0,0046 mg/m3	NPI	0,059 mg/m3	NPI	0,02 mg/m3
Skin	NPI	0,5 mg/kg bw/d	NPI	0,16 mg/kg bw/d	NPI	2,08 mg/kg	NPI	0,43 mg/kg
						bw/d		bw/d



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edicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					130	ng/L	
Normal value for fres	h water sedi	ment				210	μg/kg	
Normal value for mar	ine water se	diment				20	µg/kg	
Normal value for mar	ine water, in	termittent release	9			13	ng/L	
Normal value of STP	microorgani	isms				31,1	mg/l	
Normal value for the	terrestrial co	mpartment				100	μg/kg	
Normal value for the	atmosphere					NPI		
alth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	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		1,4		1,4				
		mg/kg		mg/kg				
		4,8	NPI	4,8	NPI	112,0	NPI	28,0
Inhalation		mg/m³		mg/m³		mg/m³		mg/m³
Inhalation			1455	1,4	MED		MED	4,0
Inhalation Skin		1,4	MED	1,4	141.00			

bis(4-(1,2-bis(etossicarbonil)-etilammino)-3-metil-cicloesil)-metano							
Predicted no-effect concentration - PNEC							
Normal value in fresh water	130	ng/L					
Normal value for fresh water sediment	210	μg/kg					
Normal value for marine water sediment	20	μg/kg					
Normal value for marine water, intermittent release	13	ng/L					
Normal value of STP microorganisms	31,1	mg/l					
Normal value for the terrestrial compartment	100	μg/kg					
Normal value for the atmosphere	NPI						
Health - Derived no-effect level - DNEL / DMEL							

Health - Derived no-effe	ect level - D	NEL / DMEL							
	Effects on consumers				Effects on workers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic	
	local	systemic	local	systemic	local	systemic	local	systemic	
Oral		4,2		4,2					
		mg/kg		mg/kg					
Inhalation		14,5	NPI	14,5	NPI	672,0	NPI	84,0	
		mg/m³		mg/m³		mg/m³		mg/m³	
Skin		4,2	MED	4,2	MED		MED	11,9	
		mg/kg		mg/kg				mg/kg	

	re	eaction mass of	: carbonato-bis	s-N-ethyl-2-isop	ropyl-1,3-oxa	zolidine		
edicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,0857	mg/l	
Normal value in marii	ne water					0,00857	mg/l	
Normal value for fres	h water sedi	ment				1,08	mg/kg/d	
Normal value for mar	ine water se	diment				0,108	mg/kg/d	
Normal value for water	Normal value for water, intermittent release 0							
Normal value of STP	microorgani	sms				100	mg/l	
Normal value for the	terrestrial co	mpartment				0,205	mg/kg/d	
ealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	consumers			Effects on w	orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		NPI		0,25				
				mg/kg bw/d				
Inhalation	NPI	NPI	NPI	0,43	NPI	NPI	NPI	2,5
				mg/m3				mg/m3
Skin	HIGH	NPI	HIGH	0,25	HIGH	NPI	HIGH	0,7
				mg/kg bw/d				mg/kg
								bw/d

(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: PE/EVAL/PE multilayer

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

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.

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 Appearance Colour Odour Odour threshold Melting point / freezing point Initial boiling point Flammability Lower explosive limit Upper explosive limit Flash point Auto-ignition temperature Decomposition temperature pH Kinematic viscosity Solubility Partition coefficient: n-octanol/water Vapour pressure Density and/or relative density	Value liquid LIGHT YELLOW characteristic not determined not determined > 35 °C not available not determined not determined > 90 °C not determined not determined not determined not determined not determined not determined not applicable not determined insoluble in water not applicable not determined	Reason for missing data:not determined
Density and/or relative density	not determined 1,06 kg/l	Method:EN ISO 1675 Temperature: 23 °C
Relative vapour density Particle characteristics	not determined not applicable	Reason for missing data:not determined



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SECTION 9. Physical and chemical properties/>>

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2004/42/EC): 20,13 % - 213,34 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.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Forms peroxides with: air.

N-BUTYL ACETATE

Decomposes on contact with: water.

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.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

May react violently with: strong oxidising agents.

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.

10.4. Conditions to avoid

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Avoid exposure to: sources of heat. Possibility of explosion.

N-BUTYL ACETATE

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

10.5. Incompatible materials

N-BUTYL ACETATE

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

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.

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

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

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





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SECTION 11. Toxicological information .../>>

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) 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)

N-BUTYL ACETATE

 LD50 (Dermal):
 > 14112 mg/kg Rabbit

 LD50 (Oral):
 10760 mg/kg Rat

 LC50 (Inhalation vapours):
 21,1 mg/l/4h Rat

DIBUTYLTIN DILAURATE

 LD50 (Dermal):
 > 2000 mg/kg Rabbit

 LD50 (Oral):
 2071 mg/kg Rat

tetraetil n, n'-(metilendicicloesano-4,1-diil)bis-dl-aspartato

 LD50 (Dermal):
 2000 mg/kg (rat)

 LD50 (Oral):
 2000 mg/kg (rat)

 LC50 (Inhalation vapours):
 4,224 mg/L/4/h (rat)

bis(4-(1,2-bis(etossicarbonil)-etilammino)-3-metil-cicloesil)-metano
LD50 (Dermal):

LD50 (Oral):

2000 mg/kg (rat)
2000 mg/kg (rat)
4,224 mg/L/4/h (rat)

Diethyl fumarate

LD50 (Oral): 1367 mg/kg Rat

Diethyl fumarate

LD50 (Oral): 1367 mg/kg Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

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

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

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

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

N-BUTYL ACETATE

@EPY 11.8.0 - SDS 1004.14



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SECTION 11. Toxicological information .../>>

Species: guinea pig Result: non-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 highly toxic for aquatic organisms. In the long term, it has negative effects on the aquatic environment.

12.1. Toxicity

N-BUTYL ACETATE

18 mg/l/96h Pimephales promelas LC50 - for Fish 44 mg/l/48h Daphnia magna EC50 - for Crustacea Chronic NOEC for Crustacea 23 mg/l Daphnia magna

DIBUTYLTIN DILAURATE

21,2 mg/l/96h Danio rerio I C50 - for Fish EC50 - for Crustacea 3,4 mg/l/48h Daphnia magna

1 mg/l/72h EC50 - for Algae / Aquatic Plants

tetraetil n, n'-(metilendicicloesano-4,1-diil)bis-dl-aspartato

LC50 - for Fish 66 mg/l/96h EC50 - for Crustacea 88,6 mg/l/48h

EC50 - for Algae / Aquatic Plants 113 mg/l/72h Scenedesmus Subspicatus

Chronic NOEC for Crustacea $> 13 \mu g/L$

bis(4-(1,2-bis(etossicarbonil)-etilammino)-3-metil-cicloesil)-metano LC50 - for Fish 66 mg/l/96h EC50 - for Crustacea 88,6 mg/l/48h

EC50 - for Algae / Aquatic Plants 113 mg/l/72h Scenedesmus Subspicatus

Chronic NOEC for Crustacea $> 13 \mu a/L$

Diethyl fumarate

LC50 - for Fish 66 mg/l/96h Danio Rerio 88,6 mg/l/48h Daphnia magna EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants 1,1 mg/l/72h Pseudokirchneriella subcapitata





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SECTION 12. Ecological information .../>>

Diethyl fumarate

LC50 - for Fish 66 mg/l/96h Danio Rerio EC50 - for Crustacea 88,6 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 1,1 mg/l/72h Pseudokirchneriella subcapitata

12.2. Persistence and degradability

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

apiary dogradable

N-BUTYL ACETATE

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

DIBUTYLTIN DILAURATE

Solubility in water 1,43 mg/l

NOT rapidly degradable

tetraetil n, n'-(metilendicicloesano-4,1-diil)bis-dl-aspartato

Solubility in water 100 g/l

bis(4-(1,2-bis(etossicarbonil)-etilammino)-3-metil-cicloesil)-metano Solubility in water $\ 5\ g/I$

reaction mass of: carbonato-bis-N-ethyl-2-isopropyl-1,3-oxazolidine

Entirely degradable

12.3. Bioaccumulative potential

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Partition coefficient: n-octanol/water 0,0043

N-BUTYL ACETATE

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

BCF 15,3

DIBUTYLTIN DILAURATE

Partition coefficient: n-octanol/water 4,44 BCF 2,91

tetraetil n, n'-(metilendicicloesano-4,1-diil)bis-dl-aspartato

Partition coefficient: n-octanol/water 5,16

bis(4-(1,2-bis(etossicarbonil)-etilammino)-3-metil-cicloesil)-metano Partition coefficient: n-octanol/water 5,99

reaction mass of: carbonato-bis-N-ethyl-2-isopropyl-1,3-oxazolidine Partition coefficient: n-octanol/water 1,8

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



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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

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tetraetil n,

n'-(metilendicicloesano-4,1-diil)bis-dl-aspartato; Diethyl fumarate)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tetraetil n,

n'-(metilendicicloesano-4,1-diil)bis-dl-aspartato; Diethyl fumarate)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tetraetil n,

n'-(metilendicicloesano-4,1-diil)bis-dl-aspartato; Diethyl fumarate)

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



NORD RESINE S.p.A.

58S - EPOGREEN COAT (A)

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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-FLimited Quantities: 5 ItIATA:Cargo:Maximum quantity: 450 LPackaging 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: E1

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.

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



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N-BUTYL ACETATE

SECTION 16. Other information

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

Flam. Liq. 3 Flammable liquid, category 3

Muta. 2 Germ cell mutagenicity, category 2

Repr. 1B Reproductive toxicity, category 1B

STOT SE 1 Specific target organ toxicity - single exposure, category 1

Acute Tox. 4 Acute toxicity, category 4

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

Eye Dam. 1 Serious eye damage, category 1
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

Skin Sens. 1 Skin sensitization, category 1
Skin Sens. 1B Skin sensitization, category 1B

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
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.
H341 Suspected of causing genetic defects.

H360FD May damage fertility. May damage the unborn child.

H370 Causes damage to organs. H302 Harmful if swallowed.

H372 Causes damage to organs through prolonged or repeated exposure.

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

H335May cause respiratory irritation.H317May cause an allergic skin reaction.H336May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

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



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SECTION 16. Other information .../>>

- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
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- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
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- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
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- 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:

02 / 09.