



Revision nr.4 Dated 17/02/2023 Printed on 17/02/2023 Page n. 1 / 14 Replaced revision:3 (Dated 02/02/2021)

Safety Data Sheet

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

SECTION 1. Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Code. 979 Product name STRATOFLEX EST (B) 1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use SOLVENT-FREE EPOXY RESIN, LOADED 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 (TV) Italia Tel. +39 0438-437511 Fax +39 0438-435155 e-mail address of the competent person responsible for the Safety Data Sheet annabreda@nordresine.com 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 2020/878.

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

Hazard classification and indication: Acute toxicity, category 4 H302 Harmful if swallowed. Skin corrosion, category 1B 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, acute H400 Very toxic to aquatic life. toxicity, category 1 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: H302

Harmful if swallowed.

ΕN



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SECTION 2. Hazards identification ... / >>

H314		s severe skin burns	, ,		
H317	•	ause an allergic skir	n reaction.		
H400 H411		oxic to aquatic life. to aquatic life with lo	ong lasting effects		
11411	TOXIC		big lasting enects.		
Precautionary	statements:				
P260			e / gas / mist / vapou		
P305+P351			usly with water for se	veral minutes. Remove contact lenses, if present and easy to do.	
P303+P361		ue rinsing. SKIN (or bair): Take	e off immediately all (contaminated clothing. Rinse skin with water [or shower].	
P280				re protection / face protection.	
P310			N CENTER / doctor.	- F	
P264	Wash	thoroughly with wate	er and soap after ha	ndling.	
Contains:	3-AMI	NOMETHYL 3.5.5-T	TRIMETHYLCYCLOH	IEXYLAMINE	
				with 1,3-benzenedimethanamine and (chloromethyl)oxirane	
				cids with tetraethylenepentamine	
				s with glycidyl tolyl ether	
	PHEN	OL, STYRENATED			
VOC (Directive	e 2004/42/EC) :				
	formance coatings.				
	/litre of product in a	a ready-to-use condi	ition :	149,89	
Limit value: - Catalysed wit	h.		700,00 %	500,00 STRATOFLEX EST (A)	
- Catalysed wit			700,00 70	STRATOLEEX EST (A)	
2.3. Other hazard	ds				
On the basis of	f available data the	product does not co	ontain any PBT or vP	vB in percentage ≥ than 0,1%.	
	i avaliable data, trie		ontain any i bi oi vi	vD in percentage = than 0,1%.	
The product co	ontains substances	with endocrine disru	upting properties in co	pncentration $\geq 0.1\%$.	
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		/information	on ingredients		
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SECTION 3.		/information	on ingredients	5	
SECTION 3.		/information	on ingredients	5	
SECTION 3. 3.2. Mixtures Contains:	Composition				
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SECTION 3. 3.2. Mixtures Contains: Identification Reaction proc	Composition x = Con ducts of C18 (unsa	ıc. % C	lassification (EC) 1	272/2008 (CLP) opentamine	
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SECTION 3. Composition/information on ingredients/>>

1,3-Benzenedimethanamine, reaction products with glycidyl tolyl ether 90194-04-0 Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, CAS 4 < x < 8Aquatic Chronic 2 H411 FC 290-611-0 LD50 Oral: 300,03 mg/kg INDEX REACH Reg. 01-2120770491-54 PHENOL, STYRENATED $1 \le x < 2.5$ Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Chronic 2 H411 CAS 61788-44-1 EC 262-975-0 INDEX REACH Reg. 01-2119980970-27 SALICYLIC ACID CAS 69-72-7 $0 \le x < 1$ Repr. 2 H361d, Acute Tox. 4 H302, Eye Dam. 1 H318 EC 200-712-3 LD50 Oral: 891 mg/kg INDEX REACH Reg. 01-2119486984-17 BENZYLDIMETHYLAMINE CAS 103-83-3 $0 \le x \le 1$ Flam. Lig. 3 H226, Acute Tox. 3 H331, Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eve Dam. 1 H318, Aquatic Chronic 3 H412 EC 203-149-1 STA Oral: 500 mg/kg, LD50 Dermal: 1477 mg/kg, STA Inhalation vapours: 3 mg/l, STA Inhalation mists/powders: 0,501 mg/l INDEX 612-074-00-7 REACH Reg. 01-2119529232-48

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

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

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

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

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

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 č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb.,
DEU	Deutschland	kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und
		Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i nateżeń czynników szkodliwych
		dla zdrowia w środowisku pracy
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)



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SECTION 8. Exposure controls/personal protection/>>

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nreshold Limit \ Type	Country	TWA/8h		STEL/1	Smin	Remarks /	Observations		
туре	Country	mg/m3	ppm	mg/m3	ppm	Remarks /	Observations		
TLV	CZE	40	8,88	80	17,76				
AGW	DEU	22	5	44	10	SKIN	11		
NDS/NDSCh	POL	240	•						
MV	SVN	22	5	44	10	SKIN			
				polymer with 1	,3-benzenedim	ethanamine a	ind (chloromet	hyl)oxirane	
redicted no-effe		ation - PNEC							
Normal value in							0,00146	mg/l	
Normal value ir	n marine wate	ər					0,00014	mg/l	
N							6		
Normal value o							8,889	mg/l	
lealth - Derived I						Effects or	rkoro		
Pouto of overage		cts on consu te Acu		Chronic	Chronic	Effects on we Acute	Acute	Chronic	Chronic
Route of expos	ure Acu loca		iemic	local	systemic	local	systemic	local	systemic
Oral	IUCa	u syst	enne	IUCAI	0,05	iocai	Systemic	IUCAI	Systemic
					mg/kg bw/d				
Inhalation					0,074				0,493
malation					mg/m3				mg/m3
Skin					0,05				0,14
U.I.I.					mg/kg bw/d				mg/kg
					ing/itg bil/d				bw/d
ealth - Derived (no-effect lev			THYL 3,5,5-TR	IMETHYLCYCL	OHEXYLAMI	NE		bw/d
lealth - Derived ı			DMEL	THYL 3,5,5-TR	IMETHYLCYCL	OHEXYLAMI			
	Effe	el - DNEL / E	DMEL mers	THYL 3,5,5-TR Chronic	IMETHYLCYCL Chronic			Chronic	Chronic
lealth - Derived i Route of expos	Effe	tel - DNEL / E ects on consu te Acu	DMEL mers			Effects on we	orkers	Chronic	
	Effe ure Acu	tel - DNEL / E ects on consu te Acu	DMEL mers te	Chronic	Chronic	Effects on we	orkers Acute		Chronic
Route of expos	Effe ure Acu	tel - DNEL / E ects on consu te Acu	DMEL mers te	Chronic	Chronic systemic 0,526	Effects on we	orkers Acute		Chronic
Route of expos	Effe ure Acu	tel - DNEL / E ects on consu te Acu	DMEL mers te	Chronic	Chronic systemic	Effects on we	orkers Acute		Chronic
Route of expos	Effe ure Acu	tel - DNEL / E ects on consu te Acu	DMEL mers te	Chronic	Chronic systemic 0,526	Effects on we Acute local	orkers Acute systemic		Chronic
Route of expos	Effe ure Acu	rel - DNEL / C acts on consu te Acu al syst	DMEL mers te remic	Chronic local	Chronic systemic 0,526 mg/kg bw/d	Effects on we Acute local 0,073 mg/m3	orkers Acute systemic 0,073 mg/m3		Chronic
Route of expos Oral Inhalation	Effe ure Acu loca	tel - DNEL / C tects on consu te Acu il syst 1,3-Benze	DMEL mers te remic nedimeth	Chronic local	Chronic systemic 0,526	Effects on we Acute local 0,073 mg/m3	orkers Acute systemic 0,073 mg/m3		Chronic
Route of expos Oral Inhalation	Effe ure Acu loca	tel - DNEL / C tects on consu te Acu il syst 1,3-Benze	DMEL mers te remic nedimeth	Chronic local	Chronic systemic 0,526 mg/kg bw/d	Effects on we Acute local 0,073 mg/m3	orkers Acute systemic 0,073 mg/m3		Chronic
Route of expos Oral Inhalation	Effe ure Acu loca	tel - DNEL / E tets on consu te Acu al syst 1,3-Benze ation - PNEC	DMEL mers te remic nedimeth	Chronic local	Chronic systemic 0,526 mg/kg bw/d	Effects on we Acute local 0,073 mg/m3	orkers Acute systemic 0,073 mg/m3	local	Chronic
Route of expose Oral Inhalation Predicted no-effe Normal value in	Effe ure Acu loca	tel - DNEL / E acts on consu te Acu al syst 1,3-Benze ation - PNEC er	DMEL mers te remic nedimeth	Chronic local	Chronic systemic 0,526 mg/kg bw/d	Effects on we Acute local 0,073 mg/m3	orkers Acute systemic 0,073 mg/m3 olyl ether 0,011	local mg/l	Chronic
Route of expose Oral Inhalation Predicted no-effe Normal value in Normal value in	Effe ure Acu loca of tesh water of fresh water of fresh water	tel - DNEL / E acts on consu te Acu al syst 1,3-Benze ation - PNEC er r sediment	DMEL mers te remic nedimeth	Chronic local	Chronic systemic 0,526 mg/kg bw/d	Effects on we Acute local 0,073 mg/m3	orkers Acute systemic 0,073 mg/m3 olyl ether 0,011 0,00011	local mg/l mg/l	Chronic
Route of expose Oral Inhalation Predicted no-effe Normal value in Normal value if Normal value fo Normal value of Normal value of	Effe ure Acu loca to fresh water marine wate or fresh water or fresh water f STP microo	et - DNEL / E acts on consulte Actual syst 1,3-Benze ation - PNEC er r sediment ter sediment organisms	DMEL mers te remic	Chronic local	Chronic systemic 0,526 mg/kg bw/d	Effects on we Acute local 0,073 mg/m3	0,073 mg/m3 0,011 0,0011 0,00011 1,099	local mg/l mg/l mg/kg/d	Chronic
Route of expose Oral Inhalation redicted no-effe Normal value in Normal value if Normal value fo Normal value of Normal value of	Effe ure Acu loca to fresh water marine wate or fresh water or fresh water f STP microo	et - DNEL / E acts on consulte Actual syst 1,3-Benze ation - PNEC er r sediment ter sediment organisms	DMEL mers te remic	Chronic local	Chronic systemic 0,526 mg/kg bw/d	Effects on we Acute local 0,073 mg/m3	Acute systemic 0,073 mg/m3 0,011 0,00011 1,099 0,10989 7,5	local mg/l mg/l mg/kg/d mg/kg/d	Chronic
Route of expose Oral Inhalation redicted no-effe Normal value in Normal value in Normal value fo Normal value of Normal value of	Effe ure Acu loca to fresh water n marine wate or fresh water or marine wate f STP microc no-effect lev Effe	acts on consulte Acuite te Acuite al system 1,3-Benze action - PNEC action - PNEC action - PNEC er r r sediment ter sediment torganisms action - DNEL / I cts on consult cts on consult	DMEL mers te remic nedimeth c DMEL mers	Chronic local anamine, reac	Chronic systemic 0,526 mg/kg bw/d	Effects on we Acute local 0,073 mg/m3 vith glycidyl t	orkers Acute systemic 0,073 mg/m3 0lyl ether 0,011 0,00011 1,099 0,10989 7,5	local mg/l mg/l mg/kg/d mg/kg/d mg/l	Chronic systemic
Route of expose Oral Inhalation Predicted no-effe Normal value in Normal value if Normal value fo Normal value of Normal value of	Effe ure Acu loca to fresh water n marine wate or fresh water or marine wate f STP microc no-effect lev Effe	el - DNEL / I acts on consulte te Acual syst 1,3-Benze ation - PNEC er r sediment ter sediment organisms el - DNEL / I acts on consulte Acual	DMEL mers te remic nedimeth ; DMEL mers te	Chronic local anamine, reac	Chronic systemic 0,526 mg/kg bw/d	Effects on we Acute local 0,073 mg/m3	orkers Acute systemic 0,073 mg/m3 0lyl ether 0,011 0,00011 1,099 0,10989 7,5 orkers Acute	local mg/l mg/l mg/kg/d mg/kg/d mg/l Chronic	Chronic systemic
Oral Inhalation Predicted no-effe Normal value in Normal value in Normal value fo Normal value of Normal value o Iealth - Derived n Route of expos	Effe ure Acu loca to fresh water n marine wate or fresh water or marine wate f STP microc no-effect lev Effe	el - DNEL / I acts on consulte te Acual syst 1,3-Benze ation - PNEC er r sediment ter sediment organisms el - DNEL / I acts on consulte Acual	DMEL mers te remic nedimeth c DMEL mers	Chronic local anamine, reac	Chronic systemic 0,526 mg/kg bw/d	Effects on we Acute local 0,073 mg/m3 vith glycidyl t	orkers Acute systemic 0,073 mg/m3 0lyl ether 0,011 0,00011 1,099 0,10989 7,5	local mg/l mg/l mg/kg/d mg/kg/d mg/l	Chronic systemic Chronic systemic
Route of expose Oral Inhalation Predicted no-effe Normal value in Normal value in Normal value fo Normal value of Normal value of Normal value of	Effe ure Acu loca fresh water marine wate or fresh water f STP microo no-effect lev Effe ure Acu	el - DNEL / I acts on consulte te Acual syst 1,3-Benze ation - PNEC er r sediment ter sediment organisms el - DNEL / I acts on consulte Acual	DMEL mers te remic nedimeth ; DMEL mers te	Chronic local anamine, reac	Chronic systemic 0,526 mg/kg bw/d	Effects on we Acute local 0,073 mg/m3 vith glycidyl t	orkers Acute systemic 0,073 mg/m3 0lyl ether 0,011 0,00011 1,099 0,10989 7,5 orkers Acute	local mg/l mg/l mg/kg/d mg/kg/d mg/l Chronic	Chronic systemic Chronic systemic 0,15
Route of expose Oral Inhalation Predicted no-effe Normal value in Normal value in Normal value fo Normal value of Normal value of Route of expose	Effe ure Acu loca fresh water marine wate or fresh water f STP microo no-effect lev Effe ure Acu	el - DNEL / I acts on consulte te Acual syst 1,3-Benze ation - PNEC er r sediment ter sediment organisms el - DNEL / I acts on consulte Acual	DMEL mers te remic nedimeth ; DMEL mers te	Chronic local anamine, reac	Chronic systemic 0,526 mg/kg bw/d	Effects on we Acute local 0,073 mg/m3 vith glycidyl t	orkers Acute systemic 0,073 mg/m3 0lyl ether 0,011 0,00011 1,099 0,10989 7,5 orkers Acute	local mg/l mg/l mg/kg/d mg/kg/d mg/l Chronic	Chronic systemic
Route of expose Oral Inhalation Predicted no-effe Normal value in Normal value of Normal value of Normal value of Normal value of Route of expose Oral	Effe ure Acu loca fresh water marine wate or fresh water f STP microo no-effect lev Effe ure Acu	el - DNEL / I acts on consulte te Acual syst 1,3-Benze ation - PNEC er r sediment ter sediment organisms el - DNEL / I acts on consulte Acual	DMEL mers te remic nedimeth ; DMEL mers te	Chronic local anamine, reac	Chronic systemic 0,526 mg/kg bw/d	Effects on we Acute local 0,073 mg/m3 vith glycidyl t	orkers Acute systemic 0,073 mg/m3 0lyl ether 0,011 0,00011 1,099 0,10989 7,5 orkers Acute	local mg/l mg/l mg/kg/d mg/kg/d mg/l Chronic	Chronic systemic
Route of expose Oral Inhalation Predicted no-effe Normal value in Normal value in Normal value fo Normal value of Normal value of Route of expose	Effe ure Acu loca fresh water marine wate or fresh water f STP microo no-effect lev Effe ure Acu	el - DNEL / I acts on consulte te Acual syst 1,3-Benze ation - PNEC er r sediment ter sediment organisms el - DNEL / I acts on consulte Acual	DMEL mers te remic nedimeth ; DMEL mers te	Chronic local anamine, reac	Chronic systemic 0,526 mg/kg bw/d	Effects on we Acute local 0,073 mg/m3 vith glycidyl t	orkers Acute systemic 0,073 mg/m3 0lyl ether 0,011 0,00011 1,099 0,10989 7,5 orkers Acute	local mg/l mg/l mg/kg/d mg/kg/d mg/l Chronic	Chronic systemic

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

			BENZYLD	IMETHYLAMIN	E			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	n water					0,0048	mg/l	
Normal value in mari	ne water					0,00048	mg/l	
Normal value of STP	microorgani	isms				534	mg/l	
Health - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on worke	rs		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		0,50		0,25				
		mg/kg bw/d		mg/kg bw/d				
Inhalation		1,74		0,87		9,9		4,9
		mg/m3		mg/m3		mg/m3		mg/m3
Skin		1		0,5		2,8		1,4
		mg/kg bw/d		mg/kg bw/d		mg/kg		mg/kg
						bw/d		bw/d
			SALI	CYLIC ACID				
Predicted no-effect cor	ncentration	- PNEC						
Normal value in freeh	watar					0.2	ma/l	

Normal value in fresh	n water					0,2	mg/l	
Normal value in mari	ne water					0,02	mg/l	
Normal value for fres	h water sed	iment				1,42	mg/kg	
Normal value for mar	ine water se	ediment				0,142	mg/kg	
lealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects o	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
Skin							VND	2
								mg/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.

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 (see standard EN 374).

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

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

SKIN PROTECTION

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

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

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

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

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

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

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

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

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Information

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Appearance Colour Odour Melting point / freezing point Initial boiling point Flammability Lower explosive limit Upper explosive limit Upper explosive limit Flash point Auto-ignition temperature pH Kinematic viscosity Solubility Partition coefficient: n-octanol/water Vapour pressure Density and/or relative density Relative vapour density	Value liquid AMBER LIKE amino Not available > 200 °C Not available Not available Not available 11 Not available soluble in organic solvents Not available Not available 1,04 kg/l Not available
Particle characteristics	Not applicable

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) :	56,55 %	-	588,16	g/litre
VOC (volatile carbon)	14,70 %	-	152,92	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.

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.

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 Incompatible with: sulphuric acid,oxidising substances,aluminium.



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

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.

BENZYLDIMETHYLAMINE When decomposing by heating, it emits NOx gas.

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

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:
ATE (Inhalation - vapours) of the mixture:
ATE (Inhalation - gas) of the mixture:
ATE (Oral) of the mixture:
ATE (Dermal) of the mixture:

BENZYL ALCOHOL LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): STA (Inhalation vapours):

2000 mg/kg Rabbit 1620 mg/kg Rat > 4,1 mg/l/4h Rat 11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

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)

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

1,3-Benzenedimethanamine, reaction products with glycidyl tolyl ether LD50 (Oral): 300,03 mg/kg

PHENOL, STYRENATED LD50 (Oral):

> 2000 mg/kg Rat

1477 mg/kg

> 5 mg/l > 20 mg/l 0,0 mg/l 1998,29 mg/kg

Not classified (no significant component)

BENZYLDIMETHYLAMINE LD50 (Dermal): STA (Oral):

SALICYLIC ACID LD50 (Dermal): LD50 (Oral):

> 2 mg/kg Rat 891 mg/kg Rat

SKIN CORROSION / IRRITATION

Corrosive for the skin



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SECTION 11. Toxicological information ... / >>

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Respiratory sensitization

Information not available

Skin sensitization

Information not available

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

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class



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SECTION 11. Toxicological information / >>

11.2. Information on other hazards

Based on the available data, the product contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on humans and cause adverse effects on the exposed individual or his or her progeny: SALICYLIC ACID

SECTION 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms. This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity

	BENZYL ALCOHOL LC50 - for Fish	10 mg/l/96h Bluegill
	3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYI LC50 - for Fish EC50 - for Crustacea	LAMINE 110 mg/l/96h Fish 23 mg/l/48h Daphnia
	BENZYLDIMETHYLAMINE LC50 - for Fish EC50 - for Crustacea EC10 for Algae / Aquatic Plants	37,8 mg/l/96h Pimephales promelas > 100 mg/l/48h Daphnia magna 0,24 mg/l/72h Desmodesmus subspicatus
	PHENOL, STYRENATED LC50 - for Fish EC50 - for Algae / Aquatic Plants	> 1 mg/l/96h Brachydanio Rerio 3,14 mg/l/72h
	Reaction products of C18 (unsaturated) fatty acids w LC50 - for Fish	/ith tetraethylenepentamine 0,19 mg/l/96h
	12.2. Persistence and degradability	
	BENZYL ALCOHOL Rapidly degradable	
	3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYI Solubility in water NOT rapidly degradable	LAMINE 1000 - 10000 mg/l
	PHENOL, STYRENATED NOT rapidly degradable	
	12.3. Bioaccumulative potential	
	BENZYL ALCOHOL Partition coefficient: n-octanol/water	1,1
	Phenol, 4,4-(1-methylethylidene)bis-, polymer with 1 BCF	,3-benzenedimethanamine and (chloromethyl)oxirane 4,77
	PHENOL, STYRENATED BCF	14,43
	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	
1		



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SECTION 12. Ecological information ... / >>

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.

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: 2735

14.2. UN proper shipping name

ADR / RID:	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Reaction products of C18 (unsaturated) fatty acids with tetraethylenepentamine; Phenol, 4,4-(1-methylethylidene)bis-, polymer with
	1,3-benzenedimethanamine and (chloromethyl)oxirane)
IMDG:	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Reaction products of C18
	(unsaturated) fatty acids with tetraethylenepentamine; Phenol, 4,4-(1-methylethylidene)bis-, polymer with
	1,3-benzenedimethanamine and (chloromethyl)oxirane)
IATA:	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Reaction products of C18
	(unsaturated) fatty acids with tetraethylenepentamine; Phenol, 4,4-(1-methylethylidene)bis-, polymer with
	1,3-benzenedimethanamine and (chloromethyl)oxirane)

14.3. Transport hazard class(es)

ADR / RID:	Class: 8	Label: 8	Real Providence of the second
IMDG:	Class: 8	Label: 8	8
IATA:	Class: 8	Label: 8	

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	Č.			
IATA:	NO				
For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.					

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80 Special provision: -	Limited Quantities: 5 L	Tunnel restriction code: (E)
IMDG: IATA:	EMS: F-A, S-B Cargo:	Limited Quantities: 5 L Maximum quantity: 60 L	Packaging instructions: 856
	Pass.: Special provision:	Maximum quantity: 5 L A3, A803	Packaging instructions: 852

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU:

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

 Product

 Point
 3 - 40

E1

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 \geq 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:

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 performance coatings.

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
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H226	Flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H411	Toxic 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
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament



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SECTION 16. Other information ... / >>

- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

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

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

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

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

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

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

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified: 01 / 02 / 03 / 08 / 09 / 11 / 12 / 15 / 16.