

TENAX SPA

FIXTOP PARTE B

Revision nr.16 Dated 17/04/2023 Printed on 19/09/2023 Page n. 1 / 16 Replaced revision:15 (Dated 29/01/2021)

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 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

FIXTOPB Code: Product name **FIXTOP PARTE B**

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

	Identified Uses	Industrial	Professional	Consumer
	ADHESIVE SYSTEM/TREATMENT FOR STONE			
	SECTOR	\checkmark	\checkmark	-
.3	B. Details of the supplier of the safety data sheet			

1.3

Name	TENAX S	PA	
Full address	Via I Mag	gio, 226	
District and Country	37020	Volargne Italv	(VR)
	Tel.	+39 045 6887593	
	Fax	+39 045 6862456	
e-mail address of the competent person			

responsible for the Safety Data Sheet 1.4. Emergency telephone number

For urgent inquiries refer to Ireland

National Poisons Information Centre, Beaumont Hospital, PO Box 1297, Beaumont

Road, Dublin 9

msds@tenax.it

Members of the public: 01 809 2166 (8am to 10pm every day) Healthcare professionals: 01 809 2566 or 01 837 9964 (24 hours)

Malta 112

0 800 314 7900 (Turkey) only, or +90 0312 433 70 01 - Toxicology Department and

Poisons Centre

+98 21 6419306 / +98 21 6405569 - Poisons Information Centre (Tehran)

+91 484 4008056 - Poison Control Centre (South India)

(011) 642 2417 / (011) 488 3108 - Anti-Poison Centre (Johannesburg)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

Hazardous to the aquatic environment, chronic

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:

Reproductive toxicity, category 2	H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
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		



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FIXTOP PARTE B

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SECTION 2. Hazards identification .../>>

toxicity, category 1

H410

Very toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:









Signal words: Danger

Hazard statements:

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
 H373 May cause damage to organs through prolonged or repeated exposure.

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

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

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

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

do. Continue rinsing.

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

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

Contains: 2-PIPERAZIN-1-YLETHYLAMINE

4-NONYLPHENOL, BRANCHED

DIETHYLENETRIAMINE

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

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 contains substances with endocrine disrupting properties in concentration ≥ 0,1%: 4-NONYLPHENOL, BRANCHED

SECTION 3. Composition/information on ingredients

3.2. Mixtures

EC

Contains:

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

4-NONYLPHENOL, BRANCHED

INDEX 601-053-00-8 $5 \le x < 10$ Repr. 2 H361fd, Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318,

Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=10

LD50 Oral: 1246 mg/kg

CAS 84852-15-3 REACH Reg. 01-2119510715-45 2-PIPERAZIN-1-YLETHYLAMINE

284-325-5

INDEX 612-105-00-4 5 ≤ x < 10 Repr. 2 H361fd, Acute Tox. 3 H311, Acute Tox. 4 H302, STOT RE 1 H372,

Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3

H412

EC 205-411-0 LD50 Oral: >1470 mg/kg, LD50 Dermal: 866 mg/kg
CAS 140-31-8

CAS 140-31-8 REACH Reg. 01-2119471486-30

EPY 11.5.1 - SDS 1004.14



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

BENZYL ALCOHOL

EC

FC.

CAS

 INDEX
 603-057-00-5
 5 ≤ x < 10</th>
 Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319

 EC
 202-859-9
 LD50 Oral: 1230 mg/kg, STA Inhalation vapours: 11 mg/l

CAS 100-51-6

REACH Reg. 01-2119492630-38

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

INDEX 612-067-00-9 1 ≤ x < 3 Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A

H317, Aquatic Chronic 3 H412 Skin Sens. 1A H317: ≥ 0,001% LD50 Oral: 1030 mg/kg

REACH Reg. 01-2119514687-32

220-666-8

2855-13-2

203-865-4

DIETHYLENETRIAMINE

INDEX 612-058-00-X $1 \le x < 3$ Acute Tox. 2 H330, Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B

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

LD50 Oral: 1620 mg/kg, LD50 Dermal: 1045 mg/kg, LC50 Inhalation

mists/powders: 0,3 mg/l/4h

CAS 111-40-0

REACH Reg. 01-2119473793-27

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

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.

Combustion products: mainly COx, NOx, calcium fumes.

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).



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SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	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
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/A` 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



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

United Kingdom TLV-ACGIH

NOR	Norge	na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021) Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
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
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
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)

	CALCIUM CARBONATE Threshold Limit Value Type Country TWA/8h STEL/15min Remarks / Observations													
Threshold Limit V	/alue													
Type	Country	TWA/8h		STEL/15min		Remarks / Observations								
		mg/m3	ppm	mg/m3	ppm									
AGW	DEU	10				INHAL								
AGW	DEU	3				RESP								
TLV	DNK	10				INHAL								
TLV	DNK	5				RESP								
VLA	ESP	10												
VLEP	FRA	10				INHAL								
VLEP	FRA	5				RESP								
HTP	FIN	10				INHAL								
NDS/NDSCh	POL	10												
WEL	GBR	4												

			2-PIPERAZIN	-1-YLETHYLA	MINE			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,058	mg/l	
Normal value in marir	ne water					0,0058	mg/l	
Normal value for fresh	h water sedi	iment				215	mg/kg	
Normal value for mar	ine water se	ediment				21,5	mg/kg	
Normal value for water	er, intermitte	ent release				0,58	mg/l	
Normal value of STP	microorgan	isms				250	mg/l	
Normal value for the t	terrestrial co	mpartment				42,9	mg/kg	
lealth - Derived no-effe	ect level - D	NEL / DMEL						
	Effects of	n 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	VND	1,5	VND	0,3		-		-
		mg/kg		mg/kg				
Inhalation	VND	5,3	VND	0,9	21,4	VND	VND	3,6
		mg/kg		mg/m3	mg/m3			mg/m3
Skin	0,02	10	0,003	1,7	0,04	20	0,006	3,3
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg



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			4-NONYLPH	ENOL, BRANCH	IED			
Predicted no-effect cor	ncentration	- PNEC		·				
Normal value in fresh	water					0,00061	mg/l	
						4		
Normal value in marii	ne water					0,00052	mg/l	
						7		
Normal value for fres						4,62	mg/kg/d	
Normal value for mar						1,23	mg/kg/d	
Normal value of STP						9,5	mg/l	
Normal value for the		•				2,3	mg/kg/d	
lealth - Derived no-eff								
	Effects o	n 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				0,08				
				mg/kg bw/d				
Inhalation				0,4		1	VND	0,5
				mg/m3		mg/m3		mg/m3
Skin				3,8		15	VND	7,5
				mg/kg bw/d		mg/kg		mg/kg
						bw/d		bw/d

				DENIZV	L ALCOHOL				
hreshold Limit V	alua			DENZI	L ALCOHOL				
Type	Country	TWA/8h		STFI /15	min	Pemarke /	Observations		
Туре	Country	mg/m3	ppm	mg/m3	ppm	(Ciliaiks /	Observations		
TLV	BGR	5	ррпп	mg/mo	рріп				
TLV	CZE	40	0.00	80	17.76				
		22	8,88		17,76 10	CIZINI	4.4		
AGW	DEU		5	44	10	SKIN	11		
HTP	FIN	45	10						
NDS/NDSCh	POL	240							
MV	SVN	22	5	44	10	SKIN			
redicted no-effe		tion - PNE	C						
Normal value in							1	mg/l	
Normal value in		•					0,1	mg/l	
Normal value fo	r fresh water	sediment					5,27	mg/kg	
Normal value fo	r marine wat	er sediment					0,527	mg/kg	
Normal value fo	r water, inter	mittent relea	ase				2,3	mg/l	
Normal value of	STP microo	rganisms					39	mg/l	
Normal value fo	r the terrestr	ial compartr	nent				0,45	mg/kg	
ealth - Derived n	o-effect leve	el - DNEL /	DMEL						
	Effe	cts on consu	ımers			Effects on w	orkers		
Route of exposu	ure Acut	te Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
•	loca	l svs	temic	local	systemic	local	systemic	local	systemic
Oral	VNE			VND	4		,		,
0.4.			/kg bw/d		mg/kg bw/d				
Inhalation	VNE			VND	5,4	VND	110	VND	22
maaaan	****		/m3	V112	mg/m3	*****	mg/m3	*****	mg/m3
Skin	VNE			VND	4	VND	40	VND	8
OMIT	VINL		/kg bw/d	VIND	mg/kg bw/d	VIND	mg/kg	VIND	mg/kg
		iliy	ng bwia		mg/kg bw/u		mg/kg		mg/kg



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				DIETHYLE	ENETRIAMINE				
hreshold Limit \	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
•	•	mg/m3	ppm	mg/m3	ppm				
TLV	BGR	4		-					
TLV	CZE	4	0,932	8	1,864				
TLV	DNK	4	1			SKIN			
VLA	ESP	4,3	1			SKIN			
VLEP	FRA	4	1						
HTP	FIN	4,3	1	13	3	SKIN			
TLV	GRC	4	1						
AK	HUN	4		8		SKIN			
GVI/KGVI	HRV	4,3	1						
TLV	NOR	4	1			SKIN			
TGG	NLD	0,5				SKIN			
NDS/NDSCh	POL	4		12		SKIN			
TLV	ROU	2	0,5	4	1	SKIN			
NGV/KGV	SWE	4,5	1	10 (C)	2 (C)	SKIN			
WEL	GBR	4,3	1	,	,	SKIN			
TLV-ACGIH		4,2	1			SKIN			
Predicted no-effe	ct concentr	ation - PNE	3						
Normal value ir	n fresh water						0,56	mg/l	
Normal value ir	n marine wat	er					0,056	mg/l	
Normal value for	or fresh wate	r sediment					1072	mg/kg	
Normal value for	or marine wa	ter sediment					107,2	mg/kg	
Normal value for	or water, inte	rmittent relea	ase				0,32	mg/l	
Normal value o							6	mg/l	
Normal value for			nent				7,97	mg/kg	
lealth - Derived i	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on consu	ımers			Effects on wo	orkers		
Route of expos	ure Acu	te Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sys	temic	local	systemic	local	systemic	local	systemic
Inhalation	VNI			VND	4,6	2,6	92,1	0,87	15,4
			/m3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin		4,8			4,88		U	1,1	11,4
		mg	/kg bw/d		mg/kg bw/d			mg/kg	mg/kg
		<u> </u>							bw/d

edicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,06	mg/l	
Normal value in marir	ne water					0,006	mg/l	
Normal value for fres	h water sedi	ment				5,784	mg/kg	
Normal value for mar	ine water se	diment				0,578	mg/kg	
Normal value for water	er, intermitte	nt release				0,23	mg/l	
Normal value of STP	microorgani	sms				3,18	mg/l	
Normal value for the	terrestrial co	mpartment				1,121	mg/kg	
ealth - Derived no-effe	ect level - D	NEL / DMEL						
	Effects or	n 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				0,526 mg/kg/d				
Inhalation					20,1 mg/m3	20,1 mg/m3	0,073 mg/m3	

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 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.



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SECTION 8. Exposure controls/personal protection/>>

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves.

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

FYF PROTECTION

Wear airtight protective goggles (see standard EN 166).

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.

HAND PROTECTION: Protect hands with work gloves for protection from chemical agents in nitrile or fluoroelastomer (EN 374-1: 2016) at least type B or higher based on the risk assessment carried out by the company. Breakthrough time> 480 minutes.

Material thickness:

NITRILE
short contact> 0.38 mm
prolonged contact> 0.55 mm
FLUOROELASTOMER
short contact> 0.50 mm
prolonged contact> 1.50 mm

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Value Appearance paste Colour beige characteristic Odour Melting point / freezing point not available Initial boiling point not available Flammability not available Lower explosive limit not available Upper explosive limit not available Flash point 60 °C Auto-ignition temperature not available Decomposition temperature not available 8-10

Kinematic viscosity pasta tixotropica
Solubility partially soluble in water

Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density 1,22 g/cm3 Relative vapour density not available Particle characteristics not applicable

Particle characteristics

9.2. Other information

Information

@EPY 11.5.1 - SDS 1004.14



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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)
 6,59 % - 80,39
 g/litre

 VOC (volatile carbon)
 5,12 % - 62,44
 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.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects



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Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: > 5 mg/l
ATE (Inhalation - vapours) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: >2000 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

2-PIPERAZIN-1-YLETHYLAMINE

LD50 (Dermal): 866 mg/kg rabbit LD50 (Oral): > 1470 mg/kg rat

4-NONYLPHENOL, BRANCHED

LD50 (Dermal): 2140 mg/kg rabbit LD50 (Oral): 1246 mg/kg rat

BENZYL ALCOHOL

 LD50 (Dermal):
 2000 mg/kg Rabbit

 LD50 (Oral):
 1230 mg/kg Rat

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

STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

DIETHYLENETRIAMINE

 LD50 (Dermal):
 1045 mg/kg Rabbit

 LD50 (Oral):
 1620 mg/kg Rat

 LC50 (Inhalation mists/powders):
 0,3 mg/l/4h Rat

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

 LD50 (Dermal):
 > 2000 mg/kg Ratto

 LD50 (Oral):
 1030 mg/kg Ratto

 LC50 (Inhalation mists/powders):
 > 5,01 mg/l/4h Ratto

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Suspected of damaging fertility - Suspected of damaging the unborn child

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD



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SECTION 11. Toxicological information .../>>

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 have negative effects on aquatic environment

12.1. Toxicity

2-PIPERAZIN-1-YLETHYLAMINE

LC50 - for Fish 368 mg/l/96h poecilia reticulata > 32 mg/l/48h daphnia magna EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants 494 mg/l/72h Scenedesmus capricornutum

4-NONYLPHENOL, BRANCHED

0,128 mg/l/96h LC50 - for Fish EC50 - for Crustacea 0,085 mg/l/48h

EC50 - for Algae / Aquatic Plants 0,027 mg/l/72h marine water algae 0,00046 mg/l marine water fish Chronic NOEC for Fish Chronic NOEC for Crustacea 0,00946 mg/l marine invertebrates Chronic NOEC for Algae / Aquatic Plants 0,5 mg/l marine water algae

BENZYL ALCOHOL

460 mg/l/96h Pimephales promelas LC50 - for Fish EC50 - for Crustacea 230 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 770 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Crustacea 51 mg/l Daphnia magna

DIETHYLENETRIAMINE

430 mg/l/96h pimephales promelas LC50 - for Fish EC50 - for Crustacea 32 mg/l/48h daphnia magna EC50 - for Algae / Aquatic Plants 1164 mg/l/72h algae Chronic NOEC for Fish > 10 mg/l pesce 5,6 mg/l daphnia magna Chronic NOEC for Crustacea Chronic NOEC for Algae / Aquatic Plants 10 mg/l algae

3-AMINOMETHYL 3.5.5-TRIMETHYLCYCLOHEXYLAMINE

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

EC50 - for Algae / Aquatic Plants > 50 mg/l/72h Scenedesmus subspicatus EC10 for Algae / Aquatic Plants 11,2 mg/l/72h Scenedesmus subspicatus

Chronic NOEC for Crustacea 3 mg/l 21 d

12.2. Persistence and degradability

2-PIPERAZIN-1-YLETHYLAMINE

NOT rapidly degradable

4-NONYLPHENOL, BRANCHED

Rapidly degradable

BENZYL ALCOHOL Rapidly degradable

DIETHYLENETRIAMINE

1000 - 10000 mg/l Solubility in water

Degradability: information not available

Rapidly degradable

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

1000 - 10000 mg/l Solubility in water

NOT rapidly degradable

@EPY 11.5.1 - SDS 1004.14



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SECTION 12. Ecological information .../>>

12.3. Bioaccumulative potential

2-PIPERAZIN-1-YLETHYLAMINE

Partition coefficient: n-octanol/water -1,48 Log Kow

4-NONYLPHENOL, BRANCHED

Partition coefficient: n-octanol/water 5,4 BCF > 260

BENZYL ALCOHOL

Partition coefficient: n-octanol/water 1,1

DIETHYLENETRIAMINE

Partition coefficient: n-octanol/water -5,58

12.4. Mobility in soil

4-NONYLPHENOL, BRANCHED

Partition coefficient: soil/water > 22

DIETHYLENETRIAMINE

Partition coefficient: soil/water 3,4

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 contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on the environment and on animal species causing adverse effects on the exposed organisms or on their progeny:

4-NONYLPHENOL, BRANCHED

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: 1760

14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, N.O.S. (4-NONYLPHENOL, BRANCHED; 2-PIPERAZIN-1-YLETHYLAMINE)
IMDG: CORROSIVE LIQUID, N.O.S. (4-NONYLPHENOL, BRANCHED; 2-PIPERAZIN-1-YLETHYLAMINE)
IATA: CORROSIVE LIQUID, N.O.S. (4-NONYLPHENOL, BRANCHED; 2-PIPERAZIN-1-YLETHYLAMINE)



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SECTION 14. Transport information .../>>

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant



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 Limited Quantities: 5 L Tunnel restriction code: (E)

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

IATA: Cargo: Maximum quantity: 60 L Packaging instructions: 856

Passengers: Maximum quantity: 5 L Packaging instructions: 852

Special provision: A3, A803

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: E1

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

Product
Point 3
Contained substance
Point 75

Point 46 4-NONYLPHENOL, BRANCHED

REACH Reg.: 01-2119510715-45

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors not applicable

Substances in Candidate List (Art. 59 REACH)

4-NONYLPHENOL, BRANCHED REACH Reg.: 01-2119510715-45

Substances subject to authorisation (Annex XIV REACH)

None



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SECTION 15. Regulatory information .../>>

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

4-NONYLPHENOL, BRANCHED - (NONYLPHENOLS)

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 been performed for the following contained substances

2-PIPERAZIN-1-YLETHYLAMINE 4-NONYLPHENOL, BRANCHED BENZYL ALCOHOL

DIETHYLENETRIAMINE

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

SECTION 16. Other information

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

Repr. 2 Reproductive toxicity, category 2
Acute Tox. 2 Acute toxicity, category 2
Acute Tox. 3 Acute toxicity, category 3
Acute Tox. 4 Acute toxicity, category 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1
STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

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

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

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

Aquatic Acute 1

Aquatic Chronic 1

Aquatic Chronic 3

Hazardous to the aquatic environment, acute toxicity, category 1

Hazardous to the aquatic environment, chronic toxicity, category 1

Hazardous to the aquatic environment, chronic toxicity, category 3

Hazardous to the aquatic environment, chronic toxicity, category 3

Suspected of damaging fertility. Suspected of damaging the unborn child.

H330 Fatal if inhaled.

H311 Toxic in contact with skin.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.
 H373 May cause damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

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

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%

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SECTION 16. Other information .../>>

- 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
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- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
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- 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



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ΕN

SECTION 16. Other information .../>>

in Section 12.

Changes to previous review: The following sections were modified: 01/02/03/05/08/09/11/12/14/15/16.