

Revision nr.6 Dated 01/08/2024 Printed on 01/08/2024 Page n. 1 / 19 Replaced revision:5 (Dated 04/04/2022) ΕN

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 29H Code. Product name STONE LC EST (B) 0YK0-6077-J00A-8ARA UFI · 1.2. Relevant identified uses of the substance or mixture and uses advised against **EPOXY PRIMER FOR DAMP SURFACES** Intended use 1.3. Details of the supplier of the safety data sheet Name NORD RESINE S.p.A. Full address Via Fornace Vecchia, 79 District and Country 31058 Susegana (TV) Italia Tel. +39 0438-437511 Fax +39 0438-435155 e-mail address of the competent person annabreda@nordresine.com responsible for the Safety Data Sheet Supplier: NORD RESINE S.p.A. 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 1	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



SECTION 2. Hazards identification ... / >>

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Hazard statements: H302 H314 H317 H400 H411 EUH071	Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Corrosive to the respiratory tract.
Precautionary statements: P260 P305+P351+P338 P303+P361+P353 P280 P310 P264	Do not breathe dust / fume / gas / mist / vapours / spray. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wear protective gloves/ protective clothing / eye protection / face protection. Immediately call a POISON CENTER / doctor. Wash thoroughly with water and soap after handling.
Contains:	Trimethylhexamethylenediame M-PHENYLENEBIS (METHYLAMINE) 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE Formaldehyde, polymeric reaction products with 4-tert-butylphenol, m-phenylenebis(methylamine) and trimethylhexane-1,6-diamine Reaction products of C18 (unsaturated) fatty acids with tetraethylenepentamine 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with triethylenetetramine BENZYL ALCOHOL Amines, polyethylenepoly-, tetraethylenepentamine fraction 3,6,9,12-tetraazatetradecamethylenediamine 1-(2-AMINOETHYIL)PIPERAZINE Amines, polyethylenepoly-, triethylenetetramine fraction

The product is classified both in acute and long-term aquatic hazard categories: it is possible to use only hazard statement H410 on the label.

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

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product contains substances with endocrine disrupting properties in concentration $\ge 0,1\%$: acido salicilico

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
Reaction pro	ducts of C18 (unsati	urated) fatty acids wit	h tetraethylenepentamine
INDEX		25 ≤ x < 35	Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC	629-725-6		
CAS	1226892-45-0		
REACH Reg.	01-2119487006-38		
M-PHENYLE	NEBIS (METHYLAMI	NE)	
INDEX	·	$20 \le x \le 25$	Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1B H317, Aquatic Chronic 3 H412, EUH071
EC	216-032-5		ATE Oral: 500 mg/kg, LC50 Inhalation mists/powders: 1,34 mg/l/4h
CAS	1477-55-0		
REACH Reg.	01-2119480150-50		



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SECTION 3. Composition/information on ingredients/>> PHENOL, STYRENATED 15 < x < 20Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411 INDEX 262-975-0 EC CAS 61788-44-1 REACH Reg. 01-2119979575-18 Formaldehyde, polymeric reaction products with 4-tert-butylphenol, m-phenylenebis(methylamine) and trimethylhexane-1,6-diamine Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Chronic INDEX 11 < x < 153 H412 EC CAS REACH Reg. esente Trimethylhexamethylenediame INDEX $5 \leq x < 7$ Acute Tox. 4 H302, Skin Corr. 1A H314, Eye Dam. 1 H318, Skin Sens. 1A H317 247-063-2 Skin Corr. 1B H314: ≥ 5% - < 50%, Skin Corr. 1C H314: ≥ 5% - < 50%, Skin EC Irrit. 2 H315: ≥ 1% - < 5% CAS 25513-64-8 LD50 Oral: 910 mg/kg REACH Rea. 01-2119560598-25 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE INDEX Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A 612-067-00-9 $5 \leq x < 7$ H317 EC 220-666-8 Skin Sens. 1A H317: ≥ 0,001% CAS 2855-13-2 LD50 Oral: 1030 mg/kg REACH Reg. 01-2119514687-32 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with triethylenetetramine INDEX $3 \le x \le 5$ Acute Tox. 4 H302, Skin Corr. 1 H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 EC 500-104-0 ATE Oral: 500 mg/kg 38294-69-8 CAS REACH Reg. 01-2120766646-41 BENZYL ALCOHOL INDEX 603-057-00-5 $1 \le x < 3$ Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1B H317 LD50 Oral: 1200 mg/kg 202-859-9 FC CAS 100-51-6 REACH Reg. 01-2119492630-38 acido salicilico 607-732-00-5 INDFX $0.5 \le x < 1$ Repr. 2 H361d, Acute Tox. 4 H302, Eye Dam. 1 H318 200-712-3 LD50 Oral: 891 mg/kg EC CAS 69-72-7 REACH Reg. 01-2119486984-17 Amines, polyethylenepoly-, triethylenetetramine fraction INDEX $0.5 \le x < 1$ Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412 EC 292-588-2 ATE Oral: 500 mg/kg, ATE Dermal: 1100 mg/kg 90640-67-8 CAS REACH Reg. 01-2119487919-13 1-(2-AMINOETHYIL)PIPERAZINE $0,1 \le x < 0,5$ Repr. 2 H361fd, Acute Tox. 3 H311, Acute Tox. 4 H302, STOT RE 1 H372, INDEX 612-105-00-4 Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412 FC 205-411-0 ATE Oral: 500 mg/kg, LD50 Dermal: 866 mg/kg CAS 140-31-8 REACH Reg. 01-2119471486-30 3,6,9,12-tetraazatetradecamethylenediamine Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 INDEX 612-064-00-2 $0.25 \le x < 0.5$ H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 EC 223-775-9 LD50 Oral: 1600 mg/kg, ATE Dermal: 1100 mg/kg CAS 4067-16-7

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SECTION 3. Composition/information on ingredients/>>

Amines, polyethylenepoly-, tetraethylenepentamine fraction INDFX 0.1 $\leq x \leq 0.5$ Act (B) Page n. 4 / 19 Replaced revision:5 (Dated 04/04/2022)

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Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 2 H411 ATE Oral: 500 mg/kg, LD50 Dermal: 1260 mg/kg

292-587-7
90640-66-7
01-2119487290-37

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

SECTION 4. First aid measures

4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Rinse your mouth with running water. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

Immediately call a POISON CENTER / doctor.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment: see section 4.1

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for



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health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

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

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
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
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)



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SECTION 8. Exposure controls/personal protection/>>

			M-P	HENYLEN	EBIS (METHY	LAMINE)				
eshold Limit Valu	е									
Туре С	ountry	TWA/8h			STEL/15min		Remar	ks / Observa	ations	
	-	mg/m3	ppm		mg/m3	ppm				
VLEP F	RA				0,1					
MV S	VN	0,1								
TLV-ACGIH					0,018 (C)		SKIN			
redicted no-effect of	oncentratio	on - PNEC								
Normal value in fre	sh water							0,094	mg/l	
Normal value in ma								0,009	mg/l	
Normal value for fr	esh water se	ediment						12,4	mg/kg/d	
Normal value for m								1,24	mg/kg/d	
Normal value for m			nt release					0,152	mg/l	
Normal value of ST								10	mg/l	
Normal value for th								2,44	mg/kg/d	
ealth - Derived no-e	effect level	- DNEL / D	MEL							
	Effects	on consur	ners			Effects	on worke	rs		
Route of exposure	Acute	Acut	е	Chronic	Chronic	Acute		Acute	Chronic	Chronic
	local	syste	emic	local	systemic	local		systemic	local	systemic
Oral		NPI			NPI					
Inhalation	NPI	NPI		NPI	NPI	MED		NPI	0,2 mg/m3	1,2 mg/m3
Skin	NPI	NPI		NPI	NPI	MED		NPI	MĔD	0,33 mg/kg
										bw/d

BENZYL ALCOHOL

hreshold Limit V	/alue									
Туре	Country	TWA/8h			STEL/15m	in	Remar	ks / Observa	ations	
		mg/m3	ppm		mg/m3	ppm				
TLV	CZE	40	8,88		80	17,76				
AGW	DEU	22	5		44	10	SKIN	11		
MAK	DEU	22	5		44	10	SKIN			
NDS/NDSCh	POL	240								
пдк	RUS				5			п		
MV	SVN	22	5		44	10	SKIN			
redicted no-effe	ct concentra	ation - PNEC								
Normal value in	fresh water							1	mg/l	
Normal value in	marine wate	er						0,1	mg/l	
Normal value for	or fresh wate	r sediment						5,27	mg/kg	
Normal value for	or marine wa	ter sediment						0,527	mg/kg	
Normal value for	or water, inte	rmittent releas	е					2,3	mg/l	
Normal value of	f STP microc	organisms						39	mg/l	
Normal value for	or the terrestr	ial compartme	ent					0,45	mg/kg	
ealth - Derived r	no-effect lev	el - DNEL / DI	MEL							
	Effe	cts on consum	ners			Effects	on worke	ers		
Route of expos	ure Acu	te Acute	e	Chronic	Chron	ic Acute		Acute	Chronic	Chronic
	loca	l syste	mic	local	syster	nic local		systemic	local	systemic
Oral		20			4					
		mg/k	g bw/d		mg/kg	bw/d				
Inhalation		27			5,4			110		22
		mg/m	13		mg/m	3		mg/m3		mg/m3
Skin		20			4			40		8
		mg/k	g bw/d		mg/kg	bw/d		mg/kg		mg/kg
		0	-		2 0			bw/d		bw/d



SECTION 8. Exposure controls/personal protection/>>

				METHYLCYCL		NE		
edicted no-effect con		PNEC						
Normal value in fresh						0,06	mg/l	
Normal value in marin						0,006	mg/l	
Normal value for fresh						5,784	mg/kg/d	
Normal value for mari						0,578	mg/kg/d	
Normal value for mari			9			0,23	mg/l	
Normal value of STP						3,18	mg/l	
Normal value for the t						1,121	mg/kg/d	
ealth - Derived no-effe	ect level - DN	NEL / DMEL						
	Effects on	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			0,300	0,300		•		-
			mg/kg bw/d	mg/kg bw/d				
Inhalation			00	0 0	0,073	0,073		
					mg/m3	mg/m3		
lealth - Derived no-effe	ect level - DN		,12-tetraazatetra	decamethylen	lediamine			
	Effects on	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		32		0,65		, -		, -
		mg/kg/d		mg/kg/d				
Inhalation		2542		0,46		8550		1,59
		mg/m3		mg/m3		mg/m3		mg/m3
Skin	1,59	13	0,68	0,4			0,044	0,91
	mg/cm2	mg/kg/d	mg/cm2	mg/kg/d			mg/cm2	mg/kg
	mg/omz	mg/kg/u	ing/oniz	mg/ng/u			mg/omz	
redicted no-effect con	centration -	PNEC	1-(2-AMINOETH	1YIL)PIPERAZ	INE			bw/d
redicted no-effect con		PNEC	1-(2-AMINOETH	1YIL)PIPERAZ	INE	0.058	mg/l	bw/d
	water	PNEC	1-(2-AMINOET)	1YIL)PIPERAZ	INE	0,058	mg/l	bw/d
	water ne water		1-(2-AMINOET)	HYIL)PIPERAZ	(INE	,	0	bw/d
Normal value in fresh Normal value in marin	water ne water n water sedim	nent	1-(2-AMINOET)	HYIL)PIPERAZ	(INE	0,0058 215	mg/l mg/kg/d	bw/d
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari	water ne water n water sedim ne water sed	nent liment	1-(2-AMINOET)	IYIL)PIPERAZ	(INE	0,0058 215 21,5	mg/l mg/kg/d mg/kg/d	bw/d
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value of STP	water ne water n water sedim ne water sed microorganis	nent liment ms	1-(2-AMINOETH	HYIL)PIPERAZ	INE	0,0058 215 21,5 250	mg/l mg/kg/d mg/kg/d mg/l	bw/d
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value of STP Normal value for the t	water ne water n water sedim ne water sed microorganis errestrial con	nent liment ms npartment	1-(2-AMINOETH	HYIL)PIPERAZ	INE	0,0058 215 21,5	mg/l mg/kg/d mg/kg/d	bw/d
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value of STP	water ne water n water sedim ne water sed microorganis errestrial con ect level - DN	nent liment ms npartment NEL / DMEL	1-(2-AMINOETH	1YIL)PIPERAZ		0,0058 215 21,5 250 1	mg/l mg/kg/d mg/kg/d mg/l	bw/d
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value of STP Normal value for the t lealth - Derived no-effe	water ne water n water sedim microorganis errestrial con ect level - DN Effects on	nent liment ms npartment NEL / DMEL consumers			Effects on w	0,0058 215 21,5 250 1 orkers	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d	
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value of STP Normal value for the t	water ne water ne water sedim ne water sed microorganis errestrial con ect level - DN Effects on Acute	nent liment ms npartment NEL / DMEL consumers Acute	Chronic	Chronic	Effects on w Acute	0,0058 215 21,5 250 1 orkers Acute	mg/l mg/kg/d mg/kg/d mg/kg/d Chronic	Chronic
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value of STP Normal value for the t lealth - Derived no-effe Route of exposure	water ne water n water sedim microorganis errestrial con ect level - DN Effects on	nent liment ms npartment NEL / DMEL consumers			Effects on w Acute local	0,0058 215 21,5 250 1 orkers Acute systemic	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local	Chronic systemic
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value of STP Normal value for the t lealth - Derived no-effe	water ne water ne water sedim ne water sed microorganis errestrial con ect level - DN Effects on Acute	nent liment ms npartment NEL / DMEL consumers Acute	Chronic	Chronic	Effects on w Acute local 0,08	0,0058 215 21,5 250 1 orkers Acute systemic 10,6	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local 0,015	Chronic systemic 10,6
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value of STP Normal value for the t Isealth - Derived no-effe Route of exposure Inhalation	water ne water ne water sedim ne water sed microorganis errestrial con ect level - DN Effects on Acute	nent liment ms npartment NEL / DMEL consumers Acute	Chronic	Chronic	Effects on w Acute local	0,0058 215 21,5 250 1 orkers Acute systemic	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local	Chronic systemic 10,6 mg/m3
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value of STP Normal value for the t lealth - Derived no-effe Route of exposure	water ne water ne water sedim ne water sed microorganis errestrial con ect level - DN Effects on Acute	nent liment ms npartment NEL / DMEL consumers Acute	Chronic	Chronic	Effects on w Acute local 0,08	0,0058 215 21,5 250 1 orkers Acute systemic 10,6	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local 0,015	Chronic systemic 10,6
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value of STP Normal value for the t Isealth - Derived no-effe Route of exposure Inhalation	water ne water ne water sedim ne water sed microorganis errestrial con ect level - DN Effects on Acute	nent liment ms npartment NEL / DMEL consumers Acute systemic	Chronic local	Chronic systemic	Effects on w Acute local 0,08 mg/m3	0,0058 215 21,5 250 1 orkers <u>Acute</u> systemic 10,6 mg/m3	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local 0,015	Chronic systemic 10,6 mg/m3 3,33
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value of STP Normal value for the t Isealth - Derived no-effe Route of exposure Inhalation	water ne water ne water sedim ne water sedim microorganis errestrial con ect level - DN Effects on Acute local	hent liment ms npartment NEL / DMEL consumers Acute systemic	Chronic	Chronic systemic	Effects on w Acute local 0,08 mg/m3	0,0058 215 21,5 250 1 orkers <u>Acute</u> systemic 10,6 mg/m3	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local 0,015	Chronic systemic 10,6 mg/m3 3,33
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value of STP Normal value for the t Idealth - Derived no-effe Route of exposure Inhalation Skin	water ne water ne water sedim ne water sedim microorganis errestrial con ect level - DN Effects on Acute local	hent liment ms npartment NEL / DMEL consumers Acute systemic	Chronic local	Chronic systemic	Effects on w Acute local 0,08 mg/m3	0,0058 215 21,5 250 1 orkers <u>Acute</u> systemic 10,6 mg/m3	mg/l mg/kg/d mg/kg/d mg/kg/d Chronic local 0,015 mg/m3	Chronic systemic 10,6 mg/m3 3,33
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari Normal value of STP Normal value of STP Normal value for the t Idealth - Derived no-effe Route of exposure Inhalation Skin	water ne water ne water sedim ne water sedim microorganis errestrial con ect level - DN Effects on Acute local	hent liment ms npartment NEL / DMEL consumers Acute systemic Amines, po PNEC	Chronic local	Chronic systemic	Effects on w Acute local 0,08 mg/m3	0,0058 215 21,5 250 1 orkers Acute systemic 10,6 mg/m3 on 0,0268	mg/l mg/kg/d mg/kg/d mg/kg/d Chronic local 0,015 mg/m3	Chronic systemic 10,6 mg/m3 3,33
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value of STP Normal value of STP Normal value for the t Idealth - Derived no-effect Route of exposure Inhalation Skin	water ne water ne water sedim ne water sedim icroorganis errestrial con ect level - DN Effects on Acute local	nent liment ms npartment NEL / DMEL consumers Acute systemic Amines, po PNEC	Chronic local	Chronic systemic	Effects on w Acute local 0,08 mg/m3	0,0058 215 21,5 250 1 orkers Acute systemic 10,6 mg/m3 on 0,0268 8,572	mg/l mg/kg/d mg/kg/d mg/kg/d Chronic local 0,015 mg/m3 mg/l mg/l	Chronic systemic 10,6 mg/m3 3,33
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value for mari Normal value of STP Normal value for the t lealth - Derived no-effe Route of exposure Inhalation Skin Predicted no-effect com Normal value in fresh Normal value for fresh	water ne water ne water sedim ne water sedim microorganis errestrial con ect level - DN Effects on Acute local	hent liment ms npartment NEL / DMEL consumers Acute systemic Amines, po PNEC hent liment	Chronic local	Chronic systemic	Effects on w Acute local 0,08 mg/m3	0,0058 215 21,5 250 1 orkers Acute systemic 10,6 mg/m3 on 0,0268 8,572 0,8572	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local 0,015 mg/m3	Chronic systemic 10,6 mg/m3 3,33
Normal value in fresh Normal value in marir Normal value for fresh Normal value for fresh Normal value for mari Normal value of STP Normal value for the t lealth - Derived no-effe Route of exposure Inhalation Skin Predicted no-effect con Normal value in fresh Normal value for fresh Normal value for mari Normal value for mari	water ne water ne water sedim ne water sedim microorganis errestrial con ect level - DN Effects on Acute local	Amines, po PNEC	Chronic local	Chronic systemic	Effects on w Acute local 0,08 mg/m3	0,0058 215 21,5 250 1 orkers Acute systemic 10,6 mg/m3 on 0,0268 8,572 0,8572 0,2	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local 0,015 mg/m3	Chronic systemic 10,6 mg/m3 3,33
Normal value in fresh Normal value in marir Normal value for fresh Normal value for fresh Normal value for mari Normal value of STP Normal value for the t lealth - Derived no-effe Route of exposure Inhalation Skin Yredicted no-effect con Normal value in fresh Normal value for fresh Normal value for mari Normal value for mari Normal value for mari	water ne water ne water sedim ne water sedim icroorganis errestrial con ect level - DN Effects on Acute local ecentration - water ne water sedim ne water sedim ne water, inter	hent liment ms npartment NEL / DMEL consumers Acute systemic Acute systemic PNEC hent liment ermittent release	Chronic local	Chronic systemic	Effects on w Acute local 0,08 mg/m3	0,0058 215 21,5 250 1 orkers Acute systemic 10,6 mg/m3 on 0,0268 8,572 0,8572 0,2 0,2 0,02	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local 0,015 mg/m3	Chronic systemic 10,6 mg/m3 3,33
Normal value in fresh Normal value in marir Normal value for fresh Normal value for fresh Normal value for mari Normal value of STP Normal value for the t lealth - Derived no-effe Route of exposure Inhalation Skin Predicted no-effect con Normal value in fresh Normal value for fresh Normal value for mari Normal value for mari	water ne water ne water sedim ne water sedim icroorganis errestrial con ect level - DN Effects on Acute local iccentration - water ne water sedim ne water sedim ne water, inter microorganis ect level - DN	Amines, po PNEC PNEC Acute systemic	Chronic local	Chronic systemic	Effects on w Acute local 0,08 mg/m3	0,0058 215 21,5 250 1 orkers Acute systemic 10,6 mg/m3 on 0,0268 8,572 0,8572 0,2 0,2 0,02 0,13	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local 0,015 mg/m3	Chronic systemic 10,6 mg/m3 3,33
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari Normal value for mari Normal value of STP Normal value for the t lealth - Derived no-effet Route of exposure Inhalation Skin Yredicted no-effect con Normal value in fresh Normal value for fresh Normal value for mari Normal value for mari Normal value for fresh Normal value for fresh Normal value for fresh	water ne water ne water sedim ne water sedim icroorganis errestrial con ect level - DN Effects on Acute local iccentration - water ne water sedim ne water sedim ne water, inter microorganis ect level - DN	Amines, po PNEC PNEC Maines PNEC PNEC PNEC PNEC PNEC PNEC PNEC PNEC	Chronic local lyethylenepoly-,	Chronic systemic triethylenetet	Effects on w Acute local 0,08 mg/m3	0,0058 215 21,5 250 1 orkers Acute systemic 10,6 mg/m3 on 0,0268 8,572 0,8572 0,2 0,2 0,2 0,02 0,13 orkers	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local 0,015 mg/m3 mg/m3	Chronic systemic 10,6 mg/m3 3,33 mg/kg/d
Normal value in fresh Normal value in marir Normal value for fresh Normal value for fresh Normal value for mari Normal value of STP Normal value for the t lealth - Derived no-effe Route of exposure Inhalation Skin Yredicted no-effect con Normal value in fresh Normal value for fresh Normal value for mari Normal value for mari Normal value for fresh	water ne water ne water sedim ne water sedim icroorganis errestrial con ect level - DN Effects on Acute local iccentration - water ne water sedim ne water sedim ne water, inter microorganis ect level - DN	Amines, po PNEC PNEC Acute systemic	Chronic local	Chronic systemic	Effects on w Acute local 0,08 mg/m3	0,0058 215 21,5 250 1 orkers Acute systemic 10,6 mg/m3 on 0,0268 8,572 0,8572 0,2 0,2 0,02 0,13	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local 0,015 mg/m3	Chronic systemic 10,6 mg/m3 3,33
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari Normal value for mari Normal value of STP Normal value for the t lealth - Derived no-effet Route of exposure Inhalation Skin Yredicted no-effect con Normal value in fresh Normal value for fresh Normal value for mari Normal value for mari Normal value for fresh Normal value for fresh Normal value for fresh	water ne water ne water sedim ne water sedim icroorganis errestrial con ect level - DN Effects on Acute local iccentration - water ne water sedim ne water sedim ne water, inter microorganis ect level - DN Effects on	Amines, po PNEC PNEC Maines PNEC PNEC PNEC PNEC PNEC PNEC PNEC PNEC	Chronic local lyethylenepoly-,	Chronic systemic triethylenetet	Effects on w Acute local 0,08 mg/m3	0,0058 215 21,5 250 1 orkers Acute systemic 10,6 mg/m3 on 0,0268 8,572 0,8572 0,2 0,2 0,2 0,02 0,13 orkers	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local 0,015 mg/m3 mg/m3	Chronic systemic 10,6 mg/m3 3,33 mg/kg/d
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari Normal value for mari Normal value of STP Normal value for the t lealth - Derived no-effet Route of exposure Inhalation Skin Yredicted no-effect con Normal value in fresh Normal value for fresh Normal value for mari Normal value for mari Normal value for fresh Normal value for fresh Normal value for fresh	water ne water ne water sedim ne water sedim icroorganis errestrial con ect level - DN Effects on Acute local ne water ne water sedim ne water sedim ne water sedim ne water, inter microorganis ect level - DN Effects on Acute	Amines, po PNEC PNEC Ment Ment Ment Ment Ment Ment Ment Ment	Chronic local lyethylenepoly-,	Chronic systemic triethylenetet	Effects on w Acute local 0,08 mg/m3	0,0058 215 21,5 250 1 orkers Acute systemic 10,6 mg/m3 on 0,0268 8,572 0,8572 0,8572 0,2 0,2 0,2 0,2 0,13 orkers Acute	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local 0,015 mg/m3 mg/m3	Chronic systemic 10,6 mg/m3 3,33 mg/kg/d
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari Normal value of STP Normal value of STP Normal value for the t lealth - Derived no-effet Route of exposure Inhalation Skin Yredicted no-effect com Normal value in fresh Normal value for fresh Normal value for mari Normal value for mari Normal value for fresh Normal value for fresh Normal value for fresh Normal value of STP lealth - Derived no-effet Route of exposure	water ne water ne water sedim ne water sedim icroorganis errestrial con ect level - DN Effects on Acute local ne water ne water sedim ne water sedim ne water sedim ne water, inter microorganis ect level - DN Effects on Acute	Amines, po PNEC PNEC Ment Ment Ment Ment Ment Ment Ment Ment	Chronic local lyethylenepoly-,	Chronic systemic triethylenetet	Effects on w Acute local 0,08 mg/m3	0,0058 215 21,5 250 1 orkers Acute systemic 10,6 mg/m3 on 0,0268 8,572 0,8572 0,8572 0,2 0,2 0,2 0,2 0,13 orkers Acute	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local 0,015 mg/m3 mg/m3	Chronic systemic 10,6 mg/m3 3,33 mg/kg/d
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari Normal value of STP Normal value of STP Normal value for the t lealth - Derived no-effet Route of exposure Inhalation Skin Yredicted no-effect com Normal value in fresh Normal value for fresh Normal value for mari Normal value for mari Normal value for fresh Normal value for fresh Normal value for fresh Normal value of STP lealth - Derived no-effet Route of exposure	water ne water ne water sedim ne water sedim icroorganis errestrial con ect level - DN Effects on Acute local ne water ne water sedim ne water sedim ne water sedim ne water, inter microorganis ect level - DN Effects on Acute	Amines, po PNEC PNEC Ment Ment Ment Ment Ment Ment Ment Ment	Chronic local lyethylenepoly-,	Chronic systemic triethylenetet	Effects on w Acute local 0,08 mg/m3	0,0058 215 21,5 250 1 orkers Acute systemic 10,6 mg/m3 on 0,0268 8,572 0,8572 0,8572 0,2 0,2 0,2 0,2 0,13 orkers Acute	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d Chronic local 0,015 mg/m3 mg/m3	Chronic systemic 10,6 mg/m3 3,33 mg/kg/d



SECTION 8. Exposure controls/personal protection/>>

redicted no-effect cor	centration	- PNEC	uoiu	o salicilico				
Normal value in fresh						200	µg/L	
Normal value in marir	ne water					1	mg/l	
Normal value for fresh	n water sedi		1,42	mg/kg				
Normal value for mari	ne water se	diment				142	µg/kg	
Normal value for mari	ine water, in	termittent release	е			20	µg/L	
Normal value of STP	microorgani	sms				162	mg/l	
Normal value for the t						166	µg/kg	
Normal value for the a	atmosphere					NPI		
lealth - Derived no-effe								
	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		4,0		1,0				
		mg/kg		mg/kg				
Inhalation		NPI	NPI	4,0	NPI	NPI	5,0	5,0
				mg/m³			mg/m ³	mg/m³
				1,0	NPI	NPI	NPI	2,3
Skin		NPI	NPI	1,0		INFI	INFI	2,3
	controtion	Amines, poly	vethylenepoly-,	mg/kg				z,3 mg/kg
		Amines, poly		mg/kg				
redicted no-effect cor		Amines, poly		mg/kg		ction		
Predicted no-effect cor Normal value in fresh	water	Amines, poly		mg/kg		ction 0,01	mg/l	
Predicted no-effect cor Normal value in fresh Normal value in marir	water ne water	Amines, poly - PNEC		mg/kg		ction 0,01 0,001	mg/l mg/l	
Predicted no-effect cor Normal value in fresh Normal value in marir Normal value for fresl	water ne water n water sedi	Amines, poly - PNEC ment		mg/kg		ction 0,01 0,001 3,198	mg/l mg/l mg/kg/d	
Predicted no-effect cor Normal value in fresh Normal value in marir Normal value for fresl Normal value for mari	water ne water n water sedi ne water se	Amines, poly - PNEC ment diment	rethylenepoly-,	mg/kg		0,01 0,001 3,198 0,3198	mg/l mg/l mg/kg/d mg/kg/d	
Predicted no-effect cor Normal value in fresh Normal value in marir Normal value for fresl Normal value for mari Normal value for mari	water ne water n water sedi ne water se ne water, in	Amines, poly - PNEC ment diment termittent release	rethylenepoly-,	mg/kg		0,01 0,001 3,198 0,3198 0,068	mg/l mg/l mg/kg/d mg/kg/d mg/l	
Predicted no-effect cor Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value for mari Normal value for fresh	water ne water n water sedi ne water se ne water, in n water, inte	Amines, poly - PNEC ment diment termittent release	rethylenepoly-,	mg/kg		0,01 0,001 3,198 0,3198 0,068 0,0068	mg/l mg/l mg/kg/d mg/kg/d mg/l mg/l	
Predicted no-effect cor Normal value in fresh Normal value in marir Normal value for fresl Normal value for mari Normal value for mari Normal value for fresl Normal value of STP	water ne water n water sedi ne water se ne water, in n water, inte microorgani	Amines, poly - PNEC ment diment termittent release sms	rethylenepoly-,	mg/kg		0,01 0,001 3,198 0,3198 0,068 0,0068 4,6	mg/l mg/l mg/kg/d mg/kg/d mg/l mg/l	
Predicted no-effect cor Normal value in fresh Normal value in marir Normal value for fresl Normal value for mari Normal value for mari Normal value for fresl Normal value of STP Normal value for the f	water ne water n water sedi ne water se ne water, in n water, inte microorgani rerrestrial co	Amines, poly - PNEC ment diment termittent release sms ompartment	rethylenepoly-,	mg/kg		0,01 0,001 3,198 0,3198 0,068 0,0068	mg/l mg/l mg/kg/d mg/kg/d mg/l mg/l	
Predicted no-effect cor Normal value in fresh Normal value in marir Normal value for fresl Normal value for mari Normal value for mari Normal value for fresl Normal value of STP	water ne water ne water sedi ne water se ne water, int n water, inte microorgani cerrestrial co ect level - D	Amines, poly - PNEC ment diment termittent release sms ompartment	rethylenepoly-,	mg/kg		0,01 0,001 3,198 0,3198 0,068 0,0068 4,6 2,5	mg/l mg/l mg/kg/d mg/kg/d mg/l mg/l	
Predicted no-effect cor Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value for mari Normal value for fresh Normal value of STP Normal value for the to Itealth - Derived no-effe	water ne water sedi ne water sedi ne water sedi ne water, inte microorgani terrestrial co oct level - D Effects of	Amines, poly - PNEC ment diment termittent release sms ompartment NEL / DMEL	rethylenepoly-,	mg/kg	pentamine fra	0,01 0,001 3,198 0,3198 0,068 0,0068 4,6 2,5	mg/l mg/l mg/kg/d mg/kg/d mg/l mg/l	
Predicted no-effect cor Normal value in fresh Normal value in marir Normal value for fresl Normal value for mari Normal value for mari Normal value for fresl Normal value of STP Normal value for the f	water ne water sedi ne water sedi ne water sedi ne water, inte microorgani terrestrial co ect level - D Effects on Acute	Amines, poly - PNEC ment diment termittent release sms ompartment DNEL / DMEL n consumers Acute	e Chronic	mg/kg tetraethylene Chronic	pentamine fra Effects on v Acute	ction 0,01 0,001 3,198 0,3198 0,068 0,0068 4,6 2,5 vorkers Acute	mg/l mg/lg mg/kg/d mg/l mg/l mg/l mg/kg/d	mg/kg
Predicted no-effect cor Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value for mari Normal value for fresh Normal value of STP Normal value for the to Itealth - Derived no-effe	water ne water sedi ne water sedi ne water sedi ne water, inte microorgani terrestrial co oct level - D Effects of	Amines, poly - PNEC ment diment termittent release sms mpartment NEL / DMEL n consumers	rethylenepoly-, e	mg/kg tetraethylene Chronic systemic	pentamine fra	ction 0,01 0,001 3,198 0,3198 0,068 0,0068 4,6 2,5 vorkers	mg/l mg/kg/d mg/kg/d mg/l mg/l mg/l mg/kg/d	mg/kg
Predicted no-effect cor Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value for mari Normal value for fresh Normal value of STP Normal value of STP Normal value for the t Itealth - Derived no-effe Route of exposure	water ne water sedi ne water sedi ne water sedi ne water, inte microorgani terrestrial co ect level - D Effects on Acute	Amines, poly - PNEC ment diment termittent release sms ompartment NEL / DMEL n consumers Acute systemic	e Chronic	mg/kg tetraethylene Chronic systemic 0,21	pentamine fra Effects on v Acute local	ction 0,01 0,001 3,198 0,3198 0,068 0,0068 4,6 2,5 vorkers Acute	mg/l mg/lg mg/kg/d mg/l mg/l mg/l mg/kg/d	mg/kg
Predicted no-effect cor Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value for mari Normal value for fresh Normal value of STP Normal value of STP Normal value for the t Itealth - Derived no-effe Route of exposure Oral	water ne water sedi ne water sedi ne water sedi ne water, inte microorgani terrestrial co ect level - D Effects on Acute	Amines, poly - PNEC ment diment termittent release sms ompartment NEL / DMEL n consumers Acute systemic	e Chronic local	mg/kg tetraethylene Chronic systemic 0,21 mg/kg bw/d	pentamine fra Effects on v Acute local	ction 0,01 0,001 3,198 0,3198 0,068 0,0068 4,6 2,5 vorkers Acute	mg/l mg/lg mg/kg/d mg/l mg/l mg/l mg/kg/d Chronic local	mg/kg Chronic systemic
Predicted no-effect cor Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value for mari Normal value for fresh Normal value of STP Normal value of STP Normal value for the t Itealth - Derived no-effe Route of exposure	water ne water n water sedi ne water sedi ne water, inte microorgani terrestrial cc ect level - D Effects of Acute local	Amines, poly - PNEC ment diment termittent release sms ompartment NEL / DMEL n consumers Acute systemic	e Chronic	mg/kg tetraethylene Chronic systemic 0,21 mg/kg bw/d 0,14	entamine fra Effects on v Acute local	ction 0,01 0,001 3,198 0,3198 0,068 0,0068 4,6 2,5 vorkers Acute	mg/l mg/lg mg/kg/d mg/l mg/l mg/l mg/kg/d	mg/kg Chronic systemic
Predicted no-effect cor Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value for mari Normal value for fresh Normal value of STP Normal value of STP Normal value for the t Itealth - Derived no-effe Route of exposure Oral	water ne water n water sedi ne water sedi ne water, inte microorgani terrestrial cc ect level - D Effects of Acute local	Amines, poly - PNEC ment diment termittent release sms ompartment NEL / DMEL n consumers Acute systemic	e Chronic local	mg/kg tetraethylene Chronic systemic 0,21 mg/kg bw/d	entamine fra Effects on v Acute local	ction 0,01 0,001 3,198 0,3198 0,068 0,0068 4,6 2,5 vorkers Acute	mg/l mg/lg mg/kg/d mg/l mg/l mg/l mg/kg/d Chronic local	mg/kg Chronic systemic

Trimethylhexamethylenediame									
Predicted no-effect cor	ncentration	- PNEC							
Normal value in fresh water 102 µg/L									
Normal value in marine water 315 µg/L									
Normal value for fres	h water sedi	ment				622	µg/kg		
Normal value for mar	ine water se	ediment				62	µg/kg		
Normal value for mar	ine water, in	termittent releas	e			10,2	µg/L		
Normal value of STP	microorgani	isms				72	mg/l		
Normal value for the	terrestrial co	ompartment				10	mg/kg		
Normal value for the	atmosphere					NPI			
Health - Derived no-eff	ect level - D	NEL / DMEL							
	Effects or	n consumers			Effects on v	workers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic	
	local	systemic	local	systemic	local	systemic	local	systemic	
Oral									
Inhalation		NEA	NEA	NEA	HIGH	NPI	HIGH	NPI	
Skin		NEA	NEA	NEA	HIGH	HIGH	HIGH	HIGH	



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

	Reactio	on products of C	18 (unsaturato	d) fatty acide	with totracthy	lononontamino		
redicted no-effect cor			io (unsaturate	u) fally actus	with tetraetily	enepentannne		
Normal value in fresh						30.7	µg/L	
Normal value in marin						6,12	μg/L	
Normal value for fres		iment				119,8	mg/kg	
Normal value for mar			11.98	mg/kg				
Normal value for mar		3,07	µg/L					
Normal value of STP	,	2,3	mg/l					
Normal value for the			nina)			20	mg/kg	
Normal value for the						9,44	mg/kg	
Normal value for the						NPI	iiig/itg	
lealth - Derived no-eff								
icalii - Deriveu no-en		n consumers			Effects on w	orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
Route of exposure	local	systemic	local	systemic	local	systemic	local	systemic
Oral	looal	NPI	10001	500,0	loodi	Systemio	10001	Systemio
				µg/kg				
Inhalation		NPI	NPI	1,74		LOW		9.87
malation				mg/m ³		LOW		mg/m ³
Skin		NPI	NPI	500,0	HIGH	NPI	HIGH	1,4
OKIT				µg/kg	THOM		mon	mg/kg
and interal way offer at a sur		DNEO	PHENOL	, STYRENATE	D			
Predicted no-effect cor Normal value in fresh		- PNEC				4	µg/L	
Normal value in marin						46	µg/L	
Normal value for fres		iment				248	µg/kg	
Normal value for mar						24.8	µg/kg	
Normal value for wate						4,6	µg/kg µg/L	
Normal value for mar	,		2			4,0	ng/L	
Normal value of STP			5			36,2	mg/L	
Normal value for the f						47,3	µg/kg	
Normal value for the						NPI	ру/ку	
Health - Derived no-eff						INFI		
leann - Denveu no-ein		n consumers			Effects on w	orkoro		
Douto of overouro			Chronic	Chronic	Acute	Acute	Chronic	Chronic
Route of exposure	Acute	Acute	Chronic					
Oral	local	systemic LOW	local	systemic	local	systemic	local	systemic
Oral				750,0 µg/kg				
Inhalation		LOW	LOW	1,31 mg/m³	LOW	LOW	LOW	7,4 mg/m³
Skin		LOW	LOW	750,0	LOW	LOW	LOW	2,1
		-	-	/ -				

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.

µg/kg

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: PVC

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.

Glove thickness must be selected based on the minimum required breakthrough time.

Breakthrough time: 480 min

mg/kg



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

Glove resistance depends on various elements, such as temperature and other environmental factors. SKIN PROTECTION

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

EYE PROTECTION

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

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

RESPIRATORY PROTECTION

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

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

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

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	LIGHT YELLOW	
Odour	amino	
Melting point / freezing point	not determined	Reason for missing data:not determined
Initial boiling point	not determined	Reason for missing data:not determined
Flammability	not available	-
Lower explosive limit	not determined	Reason for missing data:not determined
Upper explosive limit	not determined	Reason for missing data:not determined
Flash point	> 150 °C	
Auto-ignition temperature	not determined	Reason for missing data:not determined
Decomposition temperature	not determined	Reason for missing data:not determined
pH	11	
Kinematic viscosity	not determined	Reason for missing data:not determined
Solubility	slightly soluble	-
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure	not determined	Reason for missing data:not determined
Density and/or relative density	1,01 kg/l	-
Relative vapour density	not determined	Reason for missing data:not determined
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 2010/75/EU)
 1,35 % - 13,63

 VOC (volatile carbon)
 1,05 % - 10,59

3 g/litre 9 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



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

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.

Amines, polyethylenepoly-, tetraethylenepentamine fraction

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

10.6. Hazardous decomposition products

Amines, polyethylenepoly-, tetraethylenepentamine fraction May develop: nitrous gases.

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

Information not available

ACUTE TOXICITY

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

Corrosive to the respiratory tract.

M-PHENYLENEBIS (METHYLAMINE) LD50 (Dermal): LD50 (Oral): ATE (Oral): > 5 mg/l 1298,90 mg/kg >2000 mg/kg

> 3100 mg/kg Rat
> 200 mg/kg Rat - Sprague-Dawley
500 mg/kg estimate from table 3.1.2 of Annex I of the CLP



SECTION 11. Toxicological information .../>>

NORD RESINE S.p.A. 29H - STONE LC EST (B)

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LC50 (Inhalation mists/powders):	(figure used for calculation of the acute toxicity estimate of the mixture) 1,34 mg/l/4h Rat
BENZYL ALCOHOL LD50 (Dermal): LD50 (Oral):	2000 mg/kg Rabbit 1200 mg/kg
LC50 (Inhalation vapours): 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL	
LD50 (Oral): 3,6,9,12-tetraazatetradecamethylenediamine	1030 mg/kg
LD50 (Oral): 1-(2-AMINOETHYIL)PIPERAZINE	1600 mg/kg Rat
LD50 (Dermal): LD50 (Oral): ATE (Oral):	866 mg/kg Rabbit 2140 mg/kg Rat 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)
Amines, polyethylenepoly-, triethylenetetramine fracti LD50 (Dermal):	550 mg/kg Rabbit
ATE (Dermal): LD50 (Oral):	1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) 2500 mg/kg Rat
acido salicilico LD50 (Dermal): LD50 (Oral):	2000 mg/kg (rat) 891 mg/kg (rat)
Amines, polyethylenepoly-, tetraethylenepentamine fi LD50 (Dermal): LD50 (Oral):	raction 1260 mg/kg Rabbit 3221 mg/kg Rat
	ucts with 1-chloro-2,3-epoxypropane, reaction products with
ATE (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
Trimethylhexamethylenediame LD50 (Oral):	910 mg/kg (rat)
Reaction products of C18 (unsaturated) fatty acids w LD50 (Oral):	ith tetraethylenepentamine 2500 mg/kg (rat)
PHENOL, STYRENATED LD50 (Dermal): LD50 (Oral):	2000 mg/kg (rat) 2000 mg/kg (rat)
SKIN CORROSION / IRRITATION	
Corrosive for the skin	
Amines, polyethylenepoly-, triethylenetetramine fracti Species: rabbit Result: corrosive Method: OECD 404	on
SERIOUS EYE DAMAGE / IRRITATION	
Causes serious eye damage	
Amines, polyethylenepoly-, triethylenetetramine fracti Species: rabbit	on
Result: irreversible damage Method: OECD 405	
RESPIRATORY OR SKIN SENSITISATION	

ΕN



SECTION 11. Toxicological information .../>>

Sensitising for the skin

Amines, polyethylenepoly-, triethylenetetramine fraction Species: Guinea pig Result: sensitizing Method: OECD 406

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product 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: acido salicilico

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 has negative effects on the aquatic environment.

12.1. Toxicity

M-PHENYLENEBIS (METHYLAMINE) LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	87,6 mg/l/96h Oryzias latipes 15,2 mg/l/48h Daphnia magna 20,3 mg/l/72h Pseudokirchnerella subcapitata
BENZYL ALCOHOL LC50 - for Fish	10 mg/l/96h Bluegill
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAM LC50 - for Fish EC50 - for Crustacea	INE 110 mg/l/96h Fish 23 mg/l/48h Daphnia
3,6,9,12-tetraazatetradecamethylenediamine LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	133 mg/l/96h Pimephales promelas 18 mg/l/48h Daphnia magna 0,7 mg/l/72h Pseudokirchneriella subcapitata
1-(2-AMINOETHYIL)PIPERAZINE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	2190 mg/l/96h Fish 58 mg/l/48h Daphnia > 1000 mg/l/72h

ΕN



SECTION 12. Ecological information ... / >>

Amines, polyethylenepoly-, triethylenetetramine fraction	
LC50 - for Fish	330 mg/l/96h Fish
EC50 - for Crustacea	31 mg/l/48h Daphnia
	1,34 mg/l/72h
EC10 for Algae / Aquatic Plants	1,54 119/1/1211
acido salicilico	
LC50 - for Fish	1,853 g/L/24h
EC50 - for Crustacea	870 mg/l/48h
EC50 - for Algae / Aquatic Plants	100 mg/l/72h
Chronic NOEC for Crustacea	10 mg/l
Amines, polyethylenepoly-, tetraethylenepentamine frac	tion
LC50 - for Fish	420 mg/l/96h Fish
EC50 - for Crustacea	24,1 mg/l/48h Daphnia
EC50 - for Algae / Aquatic Plants	6,8 mg/l/72h
o 1	0,5 mg/l/72h
EC10 for Algae / Aquatic Plants	0,5 119//721
-	
Trimethylhexamethylenediame	
LC50 - for Fish	174 mg/l/48h
EC50 - for Algae / Aquatic Plants	43,5 mg/l/72h
EC10 for Crustacea	1,02 mg/L/504h
Chronic NOEC for Fish	10,9 mg/L/720h
Chronic NOEC for Crustacea	1,02 mg/l
Chronic NOEC for Algae / Aquatic Plants	16 mg/l
Onionie NOEO Ior Algae / Aquatie Frants	io ing/i
Reaction products of C18 (unsaturated) fatty acids with	tetraethylenenentamine
LC50 - for Fish	310 μg/L/24h
EC50 - for Crustacea	240 μg/L/48h
EC50 - for Algae / Aquatic Plants	638 µg/L/72h
EC10 for Algae / Aquatic Plants	395 µg/L/72h
PHENOL, STYRENATED	
LC50 - for Fish	5,6 mg/l/96h
EC50 - for Crustacea	4,6 mg/l/48h
EC50 - for Algae / Aquatic Plants	1,35 mg/l/72h
o 1	
Chronic NOEC for Fish	> 187,9 µg/L/840h
Chronic NOEC for Crustacea	200 μg/L
12.2. Persistence and degradability	
M-PHENYLENEBIS (METHYLAMINE)	
	1000 - 10000 ma/l
Solubility in water	1000 - 10000 mg/l
	1000 - 10000 mg/l
Solubility in water Rapidly degradable	1000 - 10000 mg/l
Solubility in water Rapidly degradable BENZYL ALCOHOL	1000 - 10000 mg/l
Solubility in water Rapidly degradable	1000 - 10000 mg/l
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable	
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN	line
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water	
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water	line
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN	line
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable	line
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine	line
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable	line
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine NOT rapidly degradable	line
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine NOT rapidly degradable 1-(2-AMINOETHYIL)PIPERAZINE	line
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine NOT rapidly degradable	line
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine NOT rapidly degradable 1-(2-AMINOETHYIL)PIPERAZINE NOT rapidly degradable	line
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine NOT rapidly degradable 1-(2-AMINOETHYIL)PIPERAZINE NOT rapidly degradable Amines, polyethylenepoly-, triethylenetetramine fraction	line
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine NOT rapidly degradable 1-(2-AMINOETHYIL)PIPERAZINE NOT rapidly degradable	line
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine NOT rapidly degradable 1-(2-AMINOETHYIL)PIPERAZINE NOT rapidly degradable Amines, polyethylenepoly-, triethylenetetramine fraction	line
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine NOT rapidly degradable 1-(2-AMINOETHYIL)PIPERAZINE NOT rapidly degradable Amines, polyethylenepoly-, triethylenetetramine fraction	line
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine NOT rapidly degradable 1-(2-AMINOETHYIL)PIPERAZINE NOT rapidly degradable Amines, polyethylenepoly-, triethylenetetramine fraction NOT rapidly degradable acido salicilico	1INE 1000 - 10000 mg/l
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine NOT rapidly degradable 1-(2-AMINOETHYIL)PIPERAZINE NOT rapidly degradable Amines, polyethylenepoly-, triethylenetetramine fraction NOT rapidly degradable acido salicilico Solubility in water	line
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine NOT rapidly degradable 1-(2-AMINOETHYIL)PIPERAZINE NOT rapidly degradable Amines, polyethylenepoly-, triethylenetetramine fraction NOT rapidly degradable acido salicilico	1INE 1000 - 10000 mg/l
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine NOT rapidly degradable 1-(2-AMINOETHYIL)PIPERAZINE NOT rapidly degradable Amines, polyethylenepoly-, triethylenetetramine fraction NOT rapidly degradable acido salicilico Solubility in water Rapidly degradable	IINE 1000 - 10000 mg/l 2,55 g/l
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine NOT rapidly degradable 1-(2-AMINOETHYIL)PIPERAZINE NOT rapidly degradable Amines, polyethylenepoly-, triethylenetetramine fraction NOT rapidly degradable acido salicilico Solubility in water Rapidly degradable Amines, polyethylenepoly-, tetraethylenepentamine frac	IINE 1000 - 10000 mg/l 2,55 g/l
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine NOT rapidly degradable 1-(2-AMINOETHYIL)PIPERAZINE NOT rapidly degradable Amines, polyethylenepoly-, triethylenetetramine fraction NOT rapidly degradable acido salicilico Solubility in water Rapidly degradable	IINE 1000 - 10000 mg/l 2,55 g/l
Solubility in water Rapidly degradable BENZYL ALCOHOL Rapidly degradable 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAN Solubility in water NOT rapidly degradable 3,6,9,12-tetraazatetradecamethylenediamine NOT rapidly degradable 1-(2-AMINOETHYIL)PIPERAZINE NOT rapidly degradable Amines, polyethylenepoly-, triethylenetetramine fraction NOT rapidly degradable acido salicilico Solubility in water Rapidly degradable Amines, polyethylenepoly-, tetraethylenepentamine frac	IINE 1000 - 10000 mg/l 2,55 g/l

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SECTION 12. Ecological information ... / >>

Solu	nethylhexamethylenediame ubility in water T rapidly degradable	1 g/l
Soli	action products of C18 (unsaturated) fatty acids with te ubility in water irely degradable	traethylenepentamine 19 g/l
Soli	ENOL, STYRENATED ubility in water T rapidly degradable	1,95 g/l
12.3. E	Bioaccumulative potential	
	PHENYLENEBIS (METHYLAMINE) tition coefficient: n-octanol/water	0,18
	NZYL ALCOHOL tition coefficient: n-octanol/water	1,1
3,6, BCI	9,12-tetraazatetradecamethylenediamine =	< 100
	lo salicilico tition coefficient: n-octanol/water	2,64
	nes, polyethylenepoly-, tetraethylenepentamine fraction tition coefficient: n-octanol/water	on -2,6
	nethylhexamethylenediame tition coefficient: n-octanol/water	-0,3
	action products of C18 (unsaturated) fatty acids with te tition coefficient: n-octanol/water	traethylenepentamine 2,2
	ENOL, STYRENATED tition coefficient: n-octanol/water =	3,03 10395
12.4. N	lobility in soil	
Info	rmation not available	

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 \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Waste transportation may be subject to ADR restrictions.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

CONTAMINATED PACKAGING

@EPY 11.8.0 - SDS 1004.14



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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 2735

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

ADR / RID:	Class: 8	Label: 8	
IMDG:	Class: 8	Label: 8	
IATA:	Class: 8	Label: 8	and the second s

14.4. Packing group

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards

ADR / RID:	Environmentally Hazardous	
IMDG:	Marine Pollutant	

IATA:

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: 1 L	Tunnel restriction code: (E)
	Special provision: 274		
IMDG:	EMS: F-A, S-B	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 30 L	Packaging instructions: 855
	Passengers:	Maximum quantity: 1 L	Packaging instructions: 851
	Special provision:	A3, A803	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

NO

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

Seveso Category - Directive 2012/18/EU:

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E1
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Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 Product



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SECTION 15. Regulatory information / >>

Point Contained substance	3
Point	75
Regulation (EU) 2019/11 not applicable	48 - on the marketing and use of explosives precursors

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: 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 M-PHENYLENEBIS (METHYLAMINE) BENZYL ALCOHOL 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE 1-(2-AMINOETHYIL)PIPERAZINE

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. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
Skin Corr. 1A	Skin corrosion, category 1A
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Skin Corr. 1	Skin corrosion, category 1
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
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
H361d	Suspected of damaging the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
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.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.



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SECTION 16. Other information ... / >>

H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

I EGEND.

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 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)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP) 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- 23. Delegated Regulation (UE) 2023/707
- 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
- 25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
- 26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)

- The Merck Index. - 10th Edition

- Handling Chemical Safety



SECTION 16. Other information ... / >>

- INRS - Fiche Toxicologique (toxicological sheet)

- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

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