

Revision nr./ Dated 06/03/2024 Printed on 06/03/2024 Page n. 1 / 14 Replaced revision:6 (Dated 20/11/2023)

### **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

Code: 472I

Product name MALTA BASE INV (B)

UFI: 9MD0-R04U-V00Q-92MJ

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

Intended use BI-COMPONENT EPOXY BINDER FOR QUARTZ MORTARS

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

responsible for the Safety Data Sheet annabreda@nordresine.com

Supplier: NORD RESINE S.p.A.

1.4. Emergency telephone number

For urgent inquiries refer to +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:

Reproductive toxicity, category 2	H361fd	Suspected of damaging fertility. Suspected of
		damaging the unborn child.
Acute toxicity, category 4	H302	Harmful if swallowed.
Specific target organ toxicity - repeated exposure,	H372	Causes damage to organs through prolonged or
category 1		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		
Hazardous to the aquatic environment, chronic	H410	Very toxic to aquatic life with long lasting effects.
toxicity, category 1		

### 2.2. Label elements

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

Hazard pictograms:











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### SECTION 2. Hazards identification .../>>

Signal words: Danger

Hazard statements:

Suspected of damaging fertility. Suspected of damaging the unborn child. H361fd

H302 Harmful if swallowed.

H372 Causes damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects. **EUH071** Corrosive to the respiratory tract.

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 rinsina.

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

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

P310 Immediately call a POISON CENTER / doctor. P264 Wash thoroughly with water and soap after handling.

Contains: 1-(2-AMINOETHYIL)PIPERAZINE

PHENOL, 4-NONYL-, BRANCHED

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-,reaction products with bisphenol A diglycidyl ether

homopolymer

M-PHENYLENEBIS (METHYLAMINE)

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

BENZYL ALCOHOL

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

### 2.3. Other hazards

PBT substances contained: PHENOL, 4-NONYL-, BRANCHED

The product contains substances with endocrine disrupting properties in concentration ≥ 0,1%:

PHENOL, 4-NONYL-, BRANCHED

SALICYLIC ACID

### **SECTION 3. Composition/information on ingredients**

### 3.2. Mixtures

Contains:

FC

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

PHENOL, 4-NONYL-, BRANCHED

INDFX 601-053-00-8  $35 \le x < 50$ 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

STA Oral: 500 mg/kg

284-325-5 84852-15-3 CAS REACH Reg. 01-2119510715-45 1-(2-AMINOETHYIL)PIPERAZINE

612-105-00-4  $35 \le x < 43.3$ Repr. 2 H361fd, Acute Tox. 3 H311, Acute Tox. 4 H302, STOT RE 1 H372, INDEX

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

EC 205-411-0 STA Oral: 500 mg/kg, LD50 Dermal: 866 mg/kg CAS 140-31-8

REACH Reg. 01-2119471486-30



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

**BENZYL ALCOHOL** 

INDEX 603-057-00-5  $8 \le x < 10$  Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1B H317

EC 202-859-9 LD50 Oral: 1200 mg/kg

CAS 100-51-6

REACH Reg. 01-2119492630-38

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-,reaction products with bisphenol A diglycidyl ether homopolymer

INDEX 5 ≤ x < 8 Skin Corr. 1B H314, Eye Dam. 1 H318

EC

CAS 68609-08-5 REACH Reg. Polymer

M-PHENYLENEBIS (METHYLAMINE)

INDEX  $3 \le x < 4$  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 STA Oral: 500 mg/kg, LC50 Inhalation mists/powders: 1,34 mg/l/4h

CAS 1477-55-0 REACH Reg. 01-2119480150-50

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

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

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

SALICYLIC ACID

INDEX  $1 \le x < 3$  Repr. 2 H361d, Acute Tox. 4 H302, Eye Dam. 1 H318

EC 200-712-3 LD50 Oral: 891 mg/kg

CAS 69-72-7

REACH Reg. 01-2119486984-17

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

### **SECTION 4. First aid measures**

### 4.1. Description of first aid measures

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

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

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

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

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

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

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

Information not available

### **SECTION 5. Firefighting measures**

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

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

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

### 5.2. Special hazards arising from the substance or mixture

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

### 5.3. Advice for firefighters

### GENERAL INFORMATION

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



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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 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
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
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
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)
	TLV-ACGIH	ACGIH 2022



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

			PHENOL, 4-N	ONYL-, BRAN	CHED			
redicted no-effect co	ncentration	- PNEC						
Normal value in fresh	n water	0,00061	mg/l					
Normal value in mari	ne water					4 0,00052	mg/l	
Normal value for fres	sh water sed	iment				7 4.62	mg/kg	
Normal value for mar	rine water se	1,23	mg/kg					
Normal value for wat	0.00017	mg/l						
Normal value of STP	microorgan	isms				9,5	mg/l	
Normal value for the						2.3	mg/kg	
lealth - Derived no-eff						_,-		
		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	0,4	VND	0,05		•		,
		mg/kg/d		mg/kg/d				
Inhalation	VND	0,8	VND	0,4	VND	1	VND	0,5
		mg/m3		mg/m3		mg/m3		mg/m3
Skin	VND	7,6	VND	3,8	VND	15	VND	7,5
		mg/kg/d		mg/kg/d		mg/kg		mg/kg/d
			1-(2-AMINOE	THYIL)PIPERA	ZINE			
redicted no-effect co	ncentration	- PNEC	,	,				
Normal value in fresh	n water					0,058	mg/l	
Normal value in mari	ne water					0,0058	mg/l	
Normal value for fres	h water sed	iment				215	mg/kg/d	
Normal value for mar	rine water se	ediment				21,5	mg/kg/d	
Normal value of STP	microorgan	isms				250	mg/l	
Normal value for the	terrestrial co	ompartment				1	mg/kg/d	
lealth - Derived no-eff	ect level - D	ONEL / DMEL					5 5	
	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
		•		-	0,08	10,6	0,015	10,6
Inhalation						m = /m 2		
Inhalation					mg/m3	mg/m3	mg/m3	mg/m3
Inhalation Skin					mg/m3	mg/ms	mg/m3	3,33

				BENZY	L ALCOHOL				
hreshold Limit \	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	40	8,88	80	17,76				
AGW	DEU	22	5	44	10	SKIN	11		
NDS/NDSCh	POL	240							
MV	SVN	22	5	44	10	SKIN			
redicted no-effe	ct concentra	ation - PNE	3						
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	r water, inte	rmittent relea	ase				2,3	mg/l	
Normal value o	f STP microc	organisms					39	mg/l	
Normal value for			nent				0.45	mg/kg	
lealth - Derived r	no-effect lev	el - DNEL / I	DMEL					0 0	
	Effe	cts on consu	ımers			Effects on w	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
Oral		20			4		•		•
		mg	/kg bw/d		mg/kg bw/d				
Inhalation		27			5,4		110		22
		mg	/m3		mg/m3		mg/m3		mg/m3
Skin		20			4		40		8
		mg	/kg bw/d		mg/kg bw/d		mg/kg		mg/kg
					<b>5 5</b>		bw/d		bw/d



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

		3-AMINOME	THYL-3,5,5-TRIM	METHYLCYCL	OHEXYLAM	INE			
Predicted 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 sedir	ment				5,784	mg/kg/d		
Normal value for mar	ine water sec	diment				0,578	mg/kg/d		
Normal value for mar	ine water, int	ermittent release	•			0,23	mg/l		
Normal value of STP	microorganis	sms				3,18	mg/l		
Normal value for the	terrestrial cor	mpartment				1,121	mg/kg/d		
Health - Derived no-effe	ect level - DI	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 mg/kg bw/d	0,300 mg/kg bw/d					
Inhalation					0,073	0,073			

mg/m3

mg/m3

			M	-PHENYLENE	BIS (METHYL	AMINE)			
hreshold Limit V	'alue				- (	,			
Туре	Country	ry TWA/8h		STEL/15	STEL/15min		Observations		
,,	•	mg/m3	ppm	mg/m3	ppm				
VLEP	FRA	Ū		0,1					
MV	SVN	0,1							
TLV-ACGIH				0,018 (C	)	SKIN			
Predicted no-effe	ct concentr	ation - PNEC	;						
Normal value in	fresh water						0,094	mg/l	
Normal value in	marine wat	er					0,009	mg/l	
Normal value for	r fresh wate	r sediment					0,43	mg/kg	
Normal value for	r marine wa	ter sediment					0,043	mg/kg	
Normal value for	r water, inte	rmittent relea	se				0,152	mg/l	
lealth - Derived n	o-effect lev	el - DNEL / [	MEL						
	Effe	cts on consu	mers			Effects on w	orkers/		
Route of exposi	ure Acu	ite Acu	te	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al syst	emic	local	systemic	local	systemic	local	systemic
Inhalation								0,2	1,2
								mg/m3	mg/m3
Skin									0,33
									mg/kg
									bw/d

			CALIA	CYLIC ACID				
			SALI	CILIC ACID				
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	ı water					0,2	mg/l	
Normal value in mari	ne water					0,02	mg/l	
Normal value for fres	h water sedi	ment				1,42	mg/kg	
Normal value for mar	ine water se	diment				0,142	mg/kg	
Health - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on v	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Skin							VND	2
								mg/kg

### Legend:

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

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

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as



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### SECTION 8. Exposure controls/personal protection

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

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 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.

Wear airtight protective goggles (see standard EN 166).

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

### RESPIRATORY PROTECTION

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

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.

Information

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

not available

soluble in organic solvents

### **SECTION 9. Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

**Properties** Value Appearance liquid Colour yellow Odour amino Melting point / freezing point not available Initial boiling point 200 °C Flammability not available Lower explosive limit not available Upper explosive limit not available Flash point 100 °C Auto-ignition temperature not available Decomposition temperature not available

Kinematic viscosity

Solubility

not available Vapour pressure not available Density and/or relative density kg/l Relative vapour density not available Particle characteristics not applicable

Partition coefficient: n-octanol/water

9.2 Other information

### 9.2.1. Information with regard to physical hazard classes

Information not available

### 9.2.2. Other safety characteristics

Total solids (250°C / 482°F)

VOC (Directive 2010/75/EU) 9,80 % -98,00 a/litre VOC (volatile carbon) 7,61 % - 76,12 g/litre

@EPY 11.5.2 - SDS 1004.14



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### **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

Information not available

### ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: > 5 mg/l
ATE (Oral) of the mixture: 475,77 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg



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

Corrosive to the respiratory tract.

PHENOL, 4-NONYL-, BRANCHED

LD50 (Dermal): 3160 mg/kg Rabbit

STA (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)

1-(2-AMINOETHYIL)PIPERAZINE

 LD50 (Dermal):
 866 mg/kg Rabbit

 LD50 (Oral):
 2140 mg/kg Rat

STA (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)

BENZYL ALCOHOL

LD50 (Dermal): 2000 mg/kg Rabbit

LD50 (Oral): 1200 mg/kg valore STA dalla tabella 3.1.2 dell'Allegato I del CLP

LC50 (Inhalation mists/powders): 4,178 mg/l/4h Rat

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

M-PHENYLENEBIS (METHYLAMINE)

LD50 (Dermal): 3100 mg/kg Rat

LD50 (Oral): > 200 mg/kg Rat - Sprague-Dawley

STA (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)

LC50 (Inhalation mists/powders): 1,34 mg/l/4h Rat

SALICYLIC ACID

LD50 (Dermal): > 2000 mg/kg Rat LD50 (Oral): 891 mg/kg Rat

### 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

Causes damage to organs

### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class





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

### 11.2. Information on other hazards

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

SALICYLIC ACID

### SECTION 12. Ecological information

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

### 12.1. Toxicity

M-PHENYLENEBIS (METHYLAMINE)

LC50 - for Fish 87,6 mg/l/96h Oryzias latipes EC50 - for Crustacea 15,2 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 20,3 mg/l/72h Pseudokirchnerella subcapitata

BENZYL ALCOHOL

LC50 - for Fish 10 mg/l/96h Bluegill

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

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

1-(2-AMINOETHYIL)PIPERAZINE

 LC50 - for Fish
 2190 mg/l/96h Fish

 EC50 - for Crustacea
 58 mg/l/48h Daphnia

 EC50 - for Algae / Aquatic Plants
 > 1000 mg/l/72h

PHENOL, 4-NONYL-, BRANCHED

LC50 - for Fish0,135 mg/l/96h Pimephales promelasEC50 - for Crustacea0,035 mg/l/48h Daphnia magnaEC50 - for Algae / Aquatic Plants0,0563 mg/l/72h Algae

Chronic NOEC for Fish 0,01 mg/l Fish

### 12.2. Persistence and degradability

M-PHENYLENEBIS (METHYLAMINE)

Solubility in water 1000 - 10000 mg/l Rapidly degradable

BENZYL ALCOHOL Rapidly degradable

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Solubility in water 1000 - 10000 mg/l

NOT rapidly degradable

1-(2-AMINOETHYIL)PIPERAZINE

NOT rapidly degradable

SALICYLIC ACID Rapidly degradable

### 12.3. Bioaccumulative potential

M-PHENYLENEBIS (METHYLAMINE)

Partition coefficient: n-octanol/water 0,18

BENZYL ALCOHOL

Partition coefficient: n-octanol/water 1,1

SALICYLIC ACID

Partition coefficient: n-octanol/water < 4,05 Log Kow



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

### 12.4. Mobility in soil

Information not available

### 12.5. Results of PBT and vPvB assessment

PBT substances contained: PHENOL, 4-NONYL-, BRANCHED

### 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:

PHENOL, 4-NONYL-, 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: 2735

### 14.2. UN proper shipping name

ADR / RID: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (PHENOL, 4-NONYL-,

BRANCHED; 1-(2-AMINOETHYIL)PIPERAZINE)

IMDG: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (PHENOL, 4-NONYL-,

BRANCHED; 1-(2-AMINOETHYIL)PIPERAZINE)

IATA: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (PHENOL, 4-NONYL-,

BRANCHED; 1-(2-AMINOETHYIL)PIPERAZINE)

### 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:



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

### 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: 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**

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

Seveso Category - Directive 2012/18/EU: E

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

 Product
 3

 Point
 3

 Contained substance
 75

Point 46 PHENOL, 4-NONYL-, 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)

PHENOL, 4-NONYL-, BRANCHED REACH Reg.: 01-2119510715-45

Substances subject to authorisation (Annex XIV REACH)

None

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

PHENOL, 4-NONYL-, 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 1-(2-AMINOETHYIL)PIPERAZINE



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### SECTION 15. Regulatory information .../>>

BENZYL ALCOHOL 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE M-PHENYLENEBIS (METHYLAMINE)

### **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. 1B

Eye Dam. 1

Eye Irrit. 2

Skin Sens. 1

Skin Sens. 1A

Skin Sens. 1B

Skin corrosion, category 1B

Serious eye damage, category 1

Eye irritation, category 2

Skin sensitization, category 1

Skin sens. 1A

Skin sensitization, category 1A

Skin sens. 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 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.
H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

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

H318Causes serious eye damage.H319Causes serious eye irritation.H317May 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.

**EUH071** Corrosive to the respiratory tract.

### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic 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



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

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (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)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

### Note for users:

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

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

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

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

### CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

02 / 03 / 11 / 12 / 15.