

Industria Chimica General S.r.l.		Revision nr.14 Dated 15/05/2025 Printed on 15/05/2025 Page n. 1 / 19 Replaced revision:13 (Dated 15/04/2025)		EN	
ME03A - EPOXY REGULAR PARTE B					

### 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:	ME03A
Product name	EPOXY REGULAR PARTE B
Chemical name and synonym	Mix of amines

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

Intended use	Catalyst for epoxy adhesives		
Identified Uses	Industrial	Professional	Consumer
Professional uses: public sector (administration, education, entertainment, services, crafts)	-	ERC: 8b, 8e. PROC: 10, 11, 19. PC: 1.	-

##### 1.3. Details of the supplier of the safety data sheet

Name	Industria Chimica General S.r.l.		
Full address	Via Repubblica di San Marino 8		
District and Country	41122 Modena		(MO)
	Italy		
	Tel.	(+39) 059 450991 / 059 450978	
	Fax	(+39) 059 450615	
e-mail address of the competent person responsible for the Safety Data Sheet	ricerca@generalchemical.it		
Supplier:	Industria Chimica General S.r.l.		

##### 1.4. Emergency telephone number

For urgent inquiries refer to	Milano, Italy	(+39) 02 66101029	Centro Antiveleni Ospedale Niguarda Ca'
	Granda		
	Pavia, Italy	(+39) 0382 24444	Centro Antiveleni IRCSS Fondazione Maugeri
	Bergamo, Italy	(+39) 800 883300	Centro Antiveleni Ospedali Riuniti
	Firenze, Italy	(+39) 055 7947819	Centro Antiveleni Ospedale Careggi
	Roma, Italy	(+39) 06 3054343	Centro Antiveleni Policlinico Gemelli
	Roma, Italy	(+39) 06 49978000	Centro Antiveleni Policlinico Umberto I
	Napoli, Italy	(+39) 081 7472870	Centro Antiveleni Ospedale Cardarelli

#### 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	H361	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Skin corrosion, category 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, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

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

### 2.2. Label elements

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

Hazard pictograms:



Signal words:

Danger

Hazard statements:

<b>H361</b>	Suspected of damaging fertility or the unborn child.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H317</b>	May cause an allergic skin reaction.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>EUH071</b>	Corrosive to the respiratory tract.

Precautionary statements:

<b>P260</b>	Do not breathe dust or fume.
<b>P280</b>	Wear protective gloves/ protective clothing / eye protection / face protection.
<b>P303+P361+P353</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P310</b>	Immediately call a POISON CENTER / doctor / . . .
<b>P501</b>	Dispose of the product / container in an authorized installation according to national and local regulations.

Contains:

2-piperazin-1-ylethylamine  
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine  
3-aminomethyl-3,5,5-trimethylcyclohexylamine  
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with TETA -POLYMER  
PHENOL, STYRENATED  
Amines, polyethylenepoly-, triethylenetetramine fraction

### 2.3. Other hazards

PBT substances contained:  
2-piperazin-1-ylethylamine

The product does not contain substances with endocrine disrupting properties in concentration  $\geq 0.1\%$ .

## SECTION 3. Composition/information on ingredients

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>Fatty acids, C18-unsatd., dimers, oligomeric reaction products with TETA -POLYMER</b>		
INDEX	$5 \leq x < 10$	Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC	500-191-5	
CAS	68082-29-1	
<b>2-piperazin-1-ylethylamine</b>		
INDEX	612-105-00-4	Repr. 2 H361, Acute Tox. 3 H311, Acute Tox. 4 H302, STOT RE 1 H372, Skin Corr. 1 H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412
EC	205-411-0	STA Oral: 500 mg/kg, LD50 Dermal: 866 mg/kg
CAS	140-31-8	

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

REACH Reg. 01-2119471486-30

### PHENOL, STYRENATED

INDEX 262-975-0  $2,5 \leq x < 5$

EC 61788-44-1

CAS 01-2119980970-27

REACH Reg. 01-2119980970-27

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with

3-aminomethyl-3,5,5-trimethylcyclohexylamine

INDEX  $3 \leq x < 5$

Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412

EC 500-101-4

CAS 38294-64-3

REACH Reg. 01-2119965165-33

3-aminomethyl-3,5,5-trimethylcyclohexylamine

INDEX 612-067-00-9  $3 \leq x < 5$

Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317

Skin Sens. 1A H317:  $\geq 0,001\%$

STA Oral: 500 mg/kg

EC 220-666-8

CAS 2855-13-2

REACH Reg. 01-2119514687-32-xxxx

### benzyl alcohol

INDEX 603-057-00-5  $1 \leq x < 5$

EC 202-859-9

CAS 100-51-6

REACH Reg. 01-2119492630-38

### SILICON DIOXIDE (nanoform)

INDEX  $1 \leq x < 5$

EC 231-545-4

CAS 7631-86-9

REACH Reg. 01-2119379499-16

### A (ISOPROPYL) NAPHTHALENE

INDEX  $1 \leq x < 2,5$

EC 254-052-6

CAS 38640-62-9

REACH Reg. 01-2119565150-48

### 2-methoxy-1-methylethyl acetate

INDEX 607-195-00-7  $1 \leq x < 5$

EC 203-603-9

CAS 108-65-6

REACH Reg. 01-2119475791-29

Amines, polyethylenepoly-, triethylenetetramine fraction

INDEX 612-059-00-5  $0,5 \leq x < 1$

Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412, EUH071

LD50 Oral: 1716 mg/kg, LD50 Dermal: 1465 mg/kg

EC 292-588-2

CAS 90640-67-8

REACH Reg. 01-2119487919-13

### Quartz (respirable fraction)

INDEX  $0,5 \leq x < 1$

EC 238-878-4

CAS 14808-60-7

REACH Reg. esente secondo allegato V

### 2,4,6-tri(dimethyl-aminomethyl) phenol

INDEX 603-069-00-0  $0,5 \leq x < 1$

EC 202-013-9

CAS 90-72-2

REACH Reg. 01-2119560597-27

Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315

STA Oral: 500 mg/kg

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

silicon dioxide

Silicon dioxide

### Supplementary information for nanoforms

#### Shape

Shape 1:

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### 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

In case of accident or discomfort, consult a doctor immediately, showing the label and / or the safety data sheet. No special treatment provided.

### SECTION 5. Firefighting measures

#### 5.1. Extinguishing media

##### SUITABLE EXTINGUISHING MEANS

The extinguishing media are the traditional ones: carbon dioxide, foam, dust and water spray.

##### MEANS OF EXTINCTION NOT SUITABLE

Do not use full jet water.

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

##### HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE

Avoid breathing combustion products. Combustion products may include: carbon monoxide, carbon dioxide, benzaldehyde.

#### 5.3. Advice for firefighters

##### GENERAL INFORMATION

Cool the containers with water jets to avoid decomposition of the product and the development of substances potentially hazardous for health. Always wear the complete fire protection equipment. Collect extinguishing water that must not be discharged into drains. Dispose of contaminated water used for extinction and the remains of the fire according to the regulations in force.

##### EQUIPMENT

Normal fire-fighting garments, such as a fireproof blanket, a polycarbonate helmet with screen frame, full-face mask with ABEKP3 multi-purpose filter, gloves and heat-resistant suit, safety belt.

### 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

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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			
Handle the product after consulting all the other sections of this safety data sheet. Do not use people with a history of skin sensitization in any process that requires the use of this product. Avoid dispersion of the product in the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering areas where you eat.			
7.2. Conditions for safe storage, including any incompatibilities			
Store only in the original container. Keep the containers closed, in a well-ventilated place, away from direct sunlight. Keep the containers away from any incompatible materials, checking section 10.			
7.3. Specific end use(s)			
Information not available			
SECTION 8. Exposure controls/personal protection			
8.1. Control parameters			
Regulatory references:			
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58	
ESP	España	Límites de exposición profesional para agentes químicos en España 2023	
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021	
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»	
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81	
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos	
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy	
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006	
RUS	Россия	ПОСТАНОВЛЕНИЕ от 13 февраля 2018 г. N 25 ОБ УТВЕРЖДЕНИИ ГИГИЕНИЧЕСКИХ НОРМАТИВОВ ГН 2.2.5.3532-18 "ПРЕДЕЛЬНО ДОПУСТИМЫЕ КОНЦЕНТРАЦИИ (ПДК) ВРЕДНЫХ ВЕЩЕСТВ В ВОЗДУХЕ РАБОЧЕЙ ЗОНЫ"	
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)	
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.	
	TLV-ACGIH	ACGIH 2023	

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

### 2-piperazin-1-ylethylamine

#### Predicted no-effect concentration - PNEC

Normal value in fresh water	0,058	mg/l
Normal value in marine water	0,0058	mg/l
Normal value for fresh water sediment	215	mg/kg/d
Normal value for marine water sediment	21,5	mg/kg/d
Normal value for water, intermittent release	0,58	mg/l
Normal value of STP microorganisms	250	mg/l
Normal value for the terrestrial compartment	1	mg/kg/d

#### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					0,08 mg/m3	10,6 mg/m3	0,015 mg/m3	10.6 mg/m3
Skin						20 mg/kg bw/d		3,33 mg/kg bw/d

### benzyl alcohol

#### Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
AGW	DEU	22	5	44	10	SKIN
NDS/NDSch	POL	240				
ПДК	RUS			5		
TLV-ACGIH		45	10			

#### Predicted no-effect concentration - PNEC

Normal value in fresh water	1	mg/l
Normal value in marine water	0,1	mg/l
Normal value for fresh water sediment	5,27	mg/kg
Normal value for marine water sediment	0,527	mg/kg
Normal value for the terrestrial compartment	0,456	mg/kg

#### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		20 mg/kg bw/d		4 mg/kg bw/d				
Inhalation		27 mg/m3		5,4 mg/m3		110 mg/m3		22 mg/m3
Skin				20 mg/kg bw/d		40 mg/kg bw/d		8 mg/kg bw/d

### 3-aminomethyl-3,5,5-trimethylcyclohexylamine

#### Predicted no-effect concentration - PNEC

Normal value in fresh water	6	mg/l
Normal value in marine water	6	mg/l
Normal value for fresh water sediment	5784	mg/kg
Normal value for marine water sediment	578	mg/kg
Normal value for water, intermittent release	23	mg/l
Normal value of STP microorganisms	318	mg/l
Normal value for the terrestrial compartment	1121	mg/kg/d

#### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0.526 mg/kg bw/d				
Inhalation					0.073 mg/m3		0.073 mg/m3	



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

2-methoxy-1-methylethyl acetate

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	270	50	270	50		
MAK	DEU	270	50	270	50		
VLA	ESP	275	50	550	100	SKIN	
VLEP	FRA	275	50	550	100	SKIN	
TLV	GRC	275	50	550	100		
VLEP	ITA	275	50	550	100	SKIN	D.Lgs 81/08
VLE	PRT	275	50	550	100	SKIN	
NDS/NDSch	POL	260		520		SKIN	
TLV	ROU	275	50	550	100	SKIN	
WEL	GBR	274	50	548	100	SKIN	
OEL	EU	275	50	550	100	SKIN	D.Lgs 81/08

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,635	mg/l
Normal value in marine water	0,064	mg/l
Normal value for fresh water sediment	3,29	mg/kg
Normal value for marine water sediment	0,329	mg/kg
Normal value for water, intermittent release	6,35	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,29	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				36 mg/kg bw/d				
Inhalation			33 mg/m3	33 mg/m3	550 mg/m3			275 mg/m3
Skin				320 mg/kg bw/d				796 mg/kg bw/d

Amines, polyethylenepoly-, triethylenetetramine fraction

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,19	mg/l
Normal value in marine water	0,038	mg/l
Normal value for fresh water sediment	95,5	mg/kg
Normal value for marine water sediment	19,2	mg/kg
Normal value for the terrestrial compartment	19,1	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		20 mg/kg		0,41 mg/kg				
Inhalation		1600 mg/m3				5380 mg/m3		
Skin	0,43		0,43 mg/cm2	0,25 mg/kg bw/d	0,028		0,028 mg/cm2	0,57 mg/kg bw/d



**ME03A - EPOXY REGULAR PARTE B****SECTION 8. Exposure controls/personal protection ... / >>****Quartz (respirable fraction)****Threshold Limit Value**

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
VLA	ESP	0,05				RESP
VLEP	FRA	0,1				RESP
VLEP	ITA	0,025				RESP
VLE	PRT	0,025				RESP
NDS/NDSch	POL	0,3				RESP
TLV	ROU	0,1				RESP
WEL	GBR	0,1				RESP
OEL	EU	0,1				RESP
TLV-ACGIH		0,025				RESP

**2,4,6-tris(dimethylaminomethyl)phenol****Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,046	mg/l
Normal value in marine water	0,0046	mg/l
Normal value for fresh water sediment	0,2621	mg/kg/d
Normal value for marine water sediment	0,02621	mg/kg/d
Normal value for water, intermittent release	0,46	mg/l
Normal value of STP microorganisms	0,2	mg/l
Normal value for the terrestrial compartment	0,0254	mg/kg/d

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,075 mg/kg bw/d				
Inhalation		0,13 mg/m3		0,13 mg/m3		2,1 mg/m3		0,53 mg/m3
Skin		0,075 mg/kg bw/d		0,075 mg/kg bw/d		0,6 mg/kg bw/d		0,15 mg/kg bw/d

**2-methoxypropyl acetate****Threshold Limit Value**

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
AGW	DEU	28	5	56	10	SKIN
MAK	DEU	27	5	54	10	SKIN Hinweis
VLA	ESP	28	5	220	40	
NDS/NDSch	POL	100		200		

**2-METHOXYPROPANOL****Threshold Limit Value**

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
AGW	DEU	19	5	38	10	SKIN
MAK	DEU	19	5	38	10	SKIN Hinweis
VLA	ESP	19	5			

**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 to guarantee maximum protection (e.g. reduction in replacement times).

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

#### HAND PROTECTION

Handle with protective gloves compliant with standard EN 374, in butyl rubber (0.7 mm) or viton (0.4 mm) and with a permeation time of at least 60 min. The permeation time may vary depending on the glove manufacturer. In the case of a mixture consisting of several substances, it is not possible to accurately estimate the protection time of the gloves. Gloves must be checked before being used and must be replaced as soon as they are damaged or worn. Use an appropriate technique for removing gloves to avoid skin contact with the product. Wash and dry your hands.

#### 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 tight-fitting safety goggles or closed protective visors complying with EN 166 and EN 165. Do not use ocular lenses.

#### RESPIRATORY PROTECTION

Exposed workers must wear an appropriate half-face mask of respiratory protection approved according to EN 140 and / or EN 136, with A1-P2 filters (white-brown color code).

In the event of possible saturation of the environment and / or lack or absence of oxygen, the use of an auto-protector or air supply respirator is recommended.

#### 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	paste	
Colour	various colors	
Odour	amino	
Odour threshold	not determined	
Melting point / freezing point	-15,4 °C	Substance:benzyl alcohol
Initial boiling point	205 °C	Substance:benzyl alcohol
Boiling range	not determined	
Flammability	not available	Reason for missing data:as a paste
Lower explosive limit	not determined	
Upper explosive limit	not determined	
Flash point	> 60 °C	
Auto-ignition temperature	not determined	
Decomposition temperature	not determined	
pH	not available	Reason for missing data:substance/mixture is non-polar/aprotic (eg: an organic solvent mixture)
Kinematic viscosity	not available	Substance:benzyl alcohol Temperature: 20 °C
Dynamic viscosity	5,84 mPa.s	
Solubility	not determined	
Partition coefficient: n-octanol/water	1,05	Substance:benzyl alcohol
Vapour pressure	7 Pa	Substance:benzyl alcohol Temperature: 20 °C
Density and/or relative density	1,52 g/cm3	
Relative vapour density	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

Evaporation rate	not determined	
Total solids (250°C / 482°F)	86,62 %	
VOC (Directive 2010/75/EU)	2,05 % - 31,16	g/litre

## ME03A - EPOXY REGULAR PARTE B

### SECTION 9. Physical and chemical properties ... / >>

VOC (volatile carbon)	1,09 % - 16,58	g/litre
Water solubility	40 g/l @ 25°C benz	

### SECTION 10. Stability and reactivity

#### 10.1. Reactivity

There are no particular risks of reaction with other substances under normal conditions of use.

benzyl alcohol

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

2-methoxy-1-methylethyl acetate

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

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.

2-methoxy-1-methylethyl acetate

May react violently with: oxidising substances,strong acids,alkaline metals.

#### 10.4. Conditions to avoid

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

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.

2-methoxy-1-methylethyl acetate

Incompatible with: oxidising substances,strong acids,alkaline metals.

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

### SECTION 11. Toxicological information

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

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

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

Metabolism, toxicokinetics, mechanism of action and other information

2-methoxy-1-methylethyl acetate

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

2-methoxy-1-methylethyl acetate

WORKERS: inhalation; contact with the skin.

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

## ME03A - EPOXY REGULAR PARTE B

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

#### 2-methoxy-1-methylethyl acetate

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

#### Interactive effects

Information not available

#### ACUTE TOXICITY

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

Corrosive to the respiratory tract.

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with TETA -POLYMER  
LD50 (Oral): > 16000 mg/kg

PHENOL, STYRENATED  
LD50 (Dermal): > 2000 mg/kg rat  
LD50 (Oral): > 2000 mg/kg rat  
LC50 (Inhalation mists/powders): 4,9 mg/l/4h rat

2-piperazin-1-ylethylamine  
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): 1230 mg/kg rat  
LC50 (Inhalation vapours): > 4,178 mg/l/4h rat  
STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP  
(figure used for calculation of the acute toxicity estimate of the mixture)

3-aminomethyl-3,5,5-trimethylcyclohexylamine  
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)

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine  
LD50 (Dermal): > 2000 mg/kg/ bw rabbit  
LD50 (Oral): 1030 mg/kg rat  
LC50 (Inhalation vapours): > 5,01 mg/l/4h rat

SILICON DIOXIDE  
LD50 (Dermal): > 5000 mg/kg rabbit  
LD50 (Oral): > 5000 mg/kg rat  
LC50 (Inhalation mists/powders): 0,139 mg/l/4h rat

A (ISOPROPYL) NAPHTHALENE  
LD50 (Dermal): > 4000 mg/kg rat  
LD50 (Oral): > 4000 mg/kg rat  
LC50 (Inhalation vapours): > 5,6 mg/l rat

2-methoxy-1-methylethyl acetate  
LD50 (Dermal): > 5000 mg/kg rabbit  
LD50 (Oral): > 5000 mg/kg rat  
LC50 (Inhalation mists/powders): > 2000 ppm/3h rat

Amines, polyethylenepoly-, triethylenetetramine fraction  
LD50 (Dermal): 1465 mg/kg rabbit  
LD50 (Oral): 1716 mg/kg rat

2,4,6-tris(dimethylaminomethyl)phenol  
LD50 (Dermal): > 1 mg/kg rat

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

LD50 (Oral): 2169 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 or the unborn child

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

May cause damage to organs

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

#### 11.2. Information on other hazards

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

### SECTION 12. Ecological information

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

#### 12.1. Toxicity

2-piperazin-1-ylethylamine

LC50 - for Fish

2190 mg/l/96h

EC50 - for Crustacea

58 mg/l/48h

EC50 - for Algae / Aquatic Plants

> 1000 mg/l/72h

2,4,6-tris(dimethylaminomethyl)phenol

LC50 - for Fish

175 mg/l/96h Cyorinus carpio

Chronic NOEC for Algae / Aquatic Plants

6,25 mg/l Scenedesmus subspicatus

2-methoxy-1-methylethyl acetate

LC50 - for Fish

100 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

> 500 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

> 1000 mg/l/72h Selenastrum capricornutum

Chronic NOEC for Fish

47,5 mg/l Oryzias latipes

Chronic NOEC for Crustacea

> 100 mg/l Daphnia magna

## ME03A - EPOXY REGULAR PARTE B

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

#### SILICON DIOXIDE

LC50 - for Fish > 10000 mg/l/96h Brachyodanio rerio

#### benzyl alcohol

LC50 - for Fish 460 mg/l/96h Pimephales promelas  
EC50 - for Crustacea 55 mg/l/48h Daphnia magna  
EC50 - for Algae / Aquatic Plants 770 mg/l/72h Pseudokirchneriella subcapitata  
Chronic NOEC for Crustacea 51 mg/l 21d - Daphnia magna  
Chronic NOEC for Algae / Aquatic Plants 310 mg/l 72h

#### A (ISOPROPYL) NAPHTHALENE

LC50 - for Fish > 0,5 mg/l/96h Leuciscus idus  
EC50 - for Crustacea 0,16 mg/l/48h Daphnia magna  
Chronic NOEC for Crustacea 0,013 mg/l Daphnia magna  
Chronic NOEC for Algae / Aquatic Plants 0,15 mg/l Desmodesmus subspicatus

#### PHENOL, STYRENATED

LC50 - for Fish 14,8 mg/l/96h  
EC50 - for Crustacea 5 mg/l/48h  
EC50 - for Algae / Aquatic Plants 3,14 mg/l/72h  
Chronic NOEC for Crustacea 0,115 mg/l 21d

#### Amines, polyethylenepoly-, triethylenetetramine fraction

LC50 - for Fish 330 mg/l/96h  
EC50 - for Crustacea 31,1 mg/l/48h  
EC50 - for Algae / Aquatic Plants 20 mg/l/72h

#### Fatty acids, C18-unsatd., dimers, oligomeric reaction products with TETA -POLYMER

LC50 - for Fish 10 mg/l/96h

#### 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

LC50 - for Fish 110 mg/l/96h  
EC50 - for Crustacea 23 mg/l/48h  
EC50 - for Algae / Aquatic Plants > 50 mg/l/72h

### 12.2. Persistence and degradability

#### 2-piperazin-1-ylethylamine

NOT rapidly degradable

#### 2,4,6-tris(dimethylaminomethyl)phenol

NOT rapidly degradable

#### 2-methoxy-1-methylethyl acetate

Solubility in water > 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

#### PHENOL, STYRENATED

NOT rapidly degradable

#### Amines, polyethylenepoly-, triethylenetetramine fraction

NOT rapidly degradable

#### Fatty acids, C18-unsatd., dimers, oligomeric reaction products with TETA -POLYMER

NOT rapidly degradable

#### 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with

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

3-aminomethyl-3,5,5-trimethylcyclohexylamine  
NOT rapidly degradable

#### 12.3. Bioaccumulative potential

2-piperazin-1-ylethylamine  
Partition coefficient: n-octanol/water -1,48

2-methoxy-1-methylethyl acetate  
Partition coefficient: n-octanol/water 1,2

benzyl alcohol  
Partition coefficient: n-octanol/water 1,1  
BCF 1,37

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with  
3-aminomethyl-3,5,5-trimethylcyclohexylamine  
Partition coefficient: n-octanol/water 3,6 @ 25 °C and pH 7

#### 12.4. Mobility in soil

Information not available

#### 12.5. Results of PBT and vPvB assessment

PBT substances contained:  
2-piperazin-1-ylethylamine

#### 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.  
CONTAMINATED PACKAGING  
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### SECTION 14. Transport information

#### 14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 1760

#### 14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, N.O.S. (2-piperazin-1-ylethylamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine)  
IMDG: CORROSIVE LIQUID, N.O.S. (2-piperazin-1-ylethylamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine)  
IATA: CORROSIVE LIQUID, N.O.S. (2-piperazin-1-ylethylamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine)

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

#### 14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



#### 14.4. Packing group

ADR / RID, IMDG, IATA: III

#### 14.5. Environmental hazards

ADR / RID: NO  
IMDG: NO  
IATA: NO

#### 14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80	Limited Quantities: 5 L	Tunnel restriction code: (E)
	Special provision: 274		
IMDG:	EMS: F-A, S-B	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 856
	Passengers:	Maximum quantity: 5 L	Packaging instructions: 852
	Special provision:	A3, A803	

#### 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

### SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: E2

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

Product	
Point	3 - 40
Contained substance	
Point	75

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

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  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



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

#### 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

PHENOL, STYRENATED

2-piperazin-1-ylethylamine

benzyl alcohol

3-aminomethyl-3,5,5-trimethylcyclohexylamine

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with

3-aminomethyl-3,5,5-trimethylcyclohexylamine

A (ISOPROPYL) NAPHTHALENE

2-methoxy-1-methylethyl acetate

Amines, polyethylenepoly-, triethylenetetramine fraction

2,4,6-tri(dimethyl-aminomethyl) phenol

This safety data sheet contains one or more Exposure Scenarios in an integrated form. Contents have been included in sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

### SECTION 16. Other information

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

<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Repr. 2</b>	Reproductive toxicity, category 2
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>STOT RE 1</b>	Specific target organ toxicity - repeated exposure, category 1
<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<b>STOT RE 2</b>	Specific target organ toxicity - repeated exposure, category 2
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>Skin Corr. 1</b>	Skin corrosion, category 1
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Skin Sens. 1A</b>	Skin sensitization, category 1A
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H226</b>	Flammable liquid and vapour.
<b>H361</b>	Suspected of damaging fertility or the unborn child.
<b>H311</b>	Toxic in contact with skin.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H332</b>	Harmful if inhaled.
<b>H372</b>	Causes damage to organs through prolonged or repeated exposure.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>EUH071</b>	Corrosive to the respiratory tract.

Use descriptor system:

<b>ERC 8b</b>	Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
<b>ERC 8e</b>	Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)
<b>PC 1</b>	Adhesives, sealants
<b>PROC 10</b>	Roller application or brushing
<b>PROC 11</b>	Non industrial spraying
<b>PROC 19</b>	Manual activities involving hand contact

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

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- 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)
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  21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
  22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
  23. Delegated Regulation (UE) 2023/707
- 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

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

#### 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 / 08 / 09 / 11 / 12 / 14 / 15.