

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 1 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

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: SP11A
Product name: EPOXY CER 90 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:

Skin corrosion, category 1A	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1	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.

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 2 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

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:

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

Precautionary statements:

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

Contains:

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
m-phenylenebis(methylamine)
PHENOL, STYRENATED

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 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)
CALCIUM CARBONATE		
INDEX	35 $\leq$ x < 50	
EC 207-439-9		
CAS 471-34-1		
REACH Reg. Esente ai sensi dell'Allegato V.7 del Regolamento CE 1907/2006 (REACH)		
CALCIUM CARBONATE PCC		
INDEX	19 $\leq$ x < 25	Substance with a community workplace exposure limit.
EC 207-439-9		
CAS 471-34-1		
REACH Reg. 01-2119486795-18		
PHENOL, STYRENATED		
INDEX	10 $\leq$ x < 19	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC 262-975-0		
CAS 61788-44-1		
REACH Reg. 01-2119980970-27		

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 3 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

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

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

INDEX 10 ≤ x < 19

EC 247-063-2

CAS 25513-64-8

REACH Reg. 01-2119560598-25

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

LD50 Oral: 910 mg/kg

p-toluenesulphonic acid (containing a maximum of 5 % H2SO4)

INDEX 016-030-00-2 1 ≤ x < 5

EC 203-180-0

CAS 104-15-4

REACH Reg. 01-2119538811-39

Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335

A (ISOPROPYL) NAPHTHALENE

INDEX 2,5 ≤ x < 5

EC 254-052-6

CAS 38640-62-9

REACH Reg. 01-2119565150-48

Asp. Tox. 1 H304, Aquatic Chronic 1 H410 M=1

m-phenylenebis(methylamine)

INDEX 3 ≤ x < 5

EC 216-032-5

CAS 1477-55-0

REACH Reg. 01-2119480150-50-xxxx

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

STA Oral: 500 mg/kg, STA Inhalation vapours: 11 mg/l

titanium dioxide; [in powder containing <1 % of particles with aerodynamic diameter ≤ 10 µm]

INDEX 022-006-00-2 1 ≤ x < 5

EC 236-675-5

CAS 13463-67-7

REACH Reg. 01-2119489379-17

Classification note according to Annex VI to the CLP Regulation: 10, V, W

Fumes, silica

INDEX 1 ≤ x < 5

EC 273-761-1

CAS 69012-64-2

REACH Reg. 01-2119486866-17

benzyl alcohol

INDEX 603-057-00-5 0,1 ≤ x < 0,5

EC 202-859-9

CAS 100-51-6

REACH Reg. 01-2119492630-38

Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319

LD50 Oral: 1230 mg/kg, STA Inhalation vapours: 11 mg/l

2-BUTOXYETHANOL

INDEX 603-014-00-0 0 ≤ x < 0,05

EC 203-905-0

CAS 111-76-2

REACH Reg. 01-2119475108-36

Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315

LD50 Oral: 1746 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours:

11 mg/l

CAS 111-76-2

REACH Reg. 01-2119475108-36

maleic anhydride

INDEX 607-096-00-9 0 ≤ x < 0,0009

EC 203-571-6

CAS 108-31-6

REACH Reg. 01-2119472428-31

Acute Tox. 4 H302, STOT RE 1 H372, Skin Corr. 1B H314, Eye Dam. 1 H318,

Resp. Sens. 1 H334, Skin Sens. 1A H317, EUH071

Skin Sens. 1A H317: ≥ 0,001%

LD50 Oral: 1090 mg/kg

REACH Reg. 01-2119472428-31

REACH Reg. 01-2119472428-31

REACH Reg. 01-2119472428-31

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REACH Reg. 01-2119472428-31

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

titanium dioxide; [in powder containing <1 % of particles with aerodynamic diameter ≤ 10 µm]

Substance with a workplace exposure limit.

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.

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 4 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

SECTION 4. First aid measures ... / >>

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

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

Industria Chimica General S.r.l.		Revision nr.9 Dated 23/07/2024 Printed on 23/07/2024 Page n. 5 / 19 Replaced revision:8 (Dated 27/07/2023)	EN
SP11A - EPOXY CER 90 PARTE B			
SECTION 7. Handling and storage ... / >>			
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 μεταλλαξιογόνους 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	

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 6 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

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

CALCIUM CARBONATE

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
MAK	DEU	10				INHAL
MAK	DEU	3				RESP
VLA	ESP	10				INHAL
VLA	ESP	3				RESP
VLEP	FRA	10				INHAL
VLEP	FRA	5				RESP
TLV	GRC	10				INHAL
TLV	GRC	5				RESP
VLEP	ITA	10				INHAL
VLEP	ITA	3				RESP
VLE	PRT	10				INHAL
VLE	PRT	5				RESP
TLV	ROU	10				RESP
WEL	GBR	10				INHAL
WEL	GBR	4				RESP

Predicted no-effect concentration - PNEC

Normal value in fresh water	NPI
Normal value in marine water	NPI
Normal value for fresh water sediment	NPI
Normal value for marine water sediment	NPI
Normal value for water, intermittent release	NPI
Normal value of STP microorganisms	100 mg/l
Normal value for the food chain (secondary poisoning)	NPI
Normal value for the terrestrial compartment	NPI
Normal value for the atmosphere	NPI

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	NPI	NPI	NPI	NPI				
Inhalation	NPI	NPI	1,06 mg/m3	10 mg/m3	NPI	NPI	4,26 mg/m3	10 mg/m3
Skin	NPI	NPI	NPI	NPI	NPI	NPI	NPI	NPI

CALCIUM CARBONATE PCC

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
OEL	EU	10				INHAL
OEL	EU	3				RESP
TLV-ACGIH		10				INHAL
TLV-ACGIH		3				RESP

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			1,06 mg/m3	10 mg/m3			4,26 mg/m3	10 mg/m3

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 7 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

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

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,102	mg/l
Normal value in marine water	0,0102	mg/l
Normal value for fresh water sediment	0,62	mg/kg
Normal value for marine water sediment	0,062	mg/kg
Normal value of STP microorganisms	72	mg/l
Normal value for the terrestrial compartment	10	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				0,05 mg/kg/d				

p-toluenesulphonic acid (containing a maximum of 5 % H2SO4)

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,073	mg/l
Normal value in marine water	0,0073	mg/l
Normal value for fresh water sediment	0,0577	mg/kg
Normal value for marine water sediment	0,00577	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			VND	2,5 mg/kg/d				
Inhalation					VND	8,7 mg/m3	VND	53,6 mg/m3
Skin			VND	215 mg/kg/d				

A (ISOPROPYL) NAPHTHALENE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00026	mg/l
Normal value in marine water	0,00002	mg/l
	6	
Normal value for fresh water sediment	0,853	mg/kg/d
Normal value for marine water sediment	0,085	mg/kg/d
Normal value of STP microorganisms	0,15	mg/l
Normal value for the food chain (secondary poisoning)	25	mg/kg
Normal value for the terrestrial compartment	0,171	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				2,1 mg/kg bw/d				
Inhalation				7,4 mg/m3				30 mg/m3
Skin				2,1 mg/kg bw/d				4,3 mg/kg bw/d

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 8 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

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

m-phenylenebis(methylamine)

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
VLEP	FRA			0,1		
TLV-ACGIH				0,018 (C)		SKIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,094	mg/l
Normal value in marine water	0,0094	mg/l
Normal value for fresh water sediment	0,43	mg/kg/d
Normal value for marine water sediment	0,043	mg/kg/d
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,045	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
Inhalation							0,2 mg/m3	1,2 mg/m3
Skin								0,33 mg/kg bw/d

titanium dioxide; [in powder containing <1 % of particles with aerodynamic diameter ≤ 10 µm]

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
VLA	ESP	10				
VLEP	FRA	10				
WEL	GBR	10				INHAL
WEL	GBR	4				RESP
TLV-ACGIH		10				
TLV-ACGIH		0,2				RESP

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,184	mg/l
Normal value in marine water	0,0184	mg/l
Normal value for fresh water sediment	1000	mg/kg
Normal value for marine water sediment	100	mg/kg
Normal value for water, intermittent release	0,193	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	100	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
Inhalation				700 mg/kg			10 mg/m3	

Fumes, silica

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
TLV-ACGIH		10				INHAL
TLV-ACGIH		3				RESP

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							0,3 mg/m3	

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 9 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

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

benzyl alcohol

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
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	Chronic	Effects on workers			
	Acute	Acute			Acute	Acute	Chronic	Chronic
	local	systemic	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		40		8
				mg/kg bw/d		mg/kg		mg/kg
						bw/d		bw/d

2-BUTOXYETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	49	10	98 (C)	20 (C)	SKIN
MAK	DEU	49	10	98	20	SKIN Hinweis
VLA	ESP	98	20	245	50	SKIN
VLEP	FRA	49	10	246	50	SKIN
TLV	GRC	120	25			
VLEP	ITA	98	20	246	50	SKIN
VLE	PRT	98	20	246	50	SKIN
NDS/NDSch	POL	98		200		SKIN
TLV	ROU	98	20	246	50	SKIN
WEL	GBR	123	25	246	50	SKIN
OEL	EU	98	20	246	50	SKIN
TLV-ACGIH		97	20			

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

maleic anhydride								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
OEL	EU		0,1					
TLV-ACGIH		0,01						
Predicted no-effect concentration - PNEC								
Normal value in fresh water						0,1	mg/l	
Normal value in marine water						0,01	mg/l	
Normal value for fresh water sediment						0,334	mg/kg	
Normal value for marine water sediment						0,0334	mg/kg	
Normal value for water, intermittent release						0,4281	mg/l	
Normal value of STP microorganisms						0,00446	mg/l	
Normal value for the food chain (secondary poisoning)						6,67	mg/kg	
Normal value for the terrestrial compartment						0,0415	mg/kg	
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		0,1 mg/kg bw/d		0,06 mg/kg bw/d				
Inhalation			0,08 mg/m3	0,05 mg/m3	0,8 mg/m3	0,8 mg/m3	0,32 mg/m3	0,19 mg/m3
Skin		0,1 mg/kg bw/d		0,1 mg/kg bw/d		0,2 mg/kg bw/d		0,2 mg/kg bw/d

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.

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	straw yellow	

Industria Chimica General S.r.l. SP11A - EPOXY CER 90 PARTE B		Revision nr.9 Dated 23/07/2024 Printed on 23/07/2024 Page n. 11 / 19 Replaced revision:8 (Dated 27/07/2023) EN
SECTION 9. Physical and chemical properties ... / >>		
Odour Odour threshold Melting point / freezing point Initial boiling point Boiling range Flammability Lower explosive limit Upper explosive limit Flash point Auto-ignition temperature Decomposition temperature pH Kinematic viscosity Dynamic viscosity Solubility Partition coefficient: n-octanol/water Vapour pressure Density and/or relative density Relative vapour density Particle characteristics	amino not determined not determined > 150 °C not determined not applicable not determined not determined > 60 °C 436 °C not determined not determined not available 5,84 mPa.s not determined 1,05 7 Pa 1,8 g/cm3 not determined not applicable	Reason for missing data:as a paste Substance:benzyl alcohol Substance:benzyl alcohol Temperature: 20 °C Substance:benzyl alcohol Substance:benzyl alcohol
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 Total solids (250°C / 482°F) VOC (Directive 2010/75/EU) VOC (volatile carbon) Explosive properties Oxidising properties Water solubility	not determined 99,48 % 0,02 % - 0,36 0,01 % - 0,22 not explosive non-oxidizing 40 mg/l @ 25°C ALCOOL BENZILICO	g/litre g/litre
SECTION 10. Stability and reactivity		
10.1. Reactivity		
There are no particular risks of reaction with other substances under normal conditions of use.		
CALCIUM CARBONATE Decomposes at temperatures above 800°C/1472°F. CALCIUM CARBONATE PCC Decomposes at temperatures above 800°C/1472°F. benzyl alcohol Decomposes at temperatures above 870°C/1598°F.Possibility of explosion. 2-BUTOXYETHANOL Decomposes under the effect of heat.		
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. 2-BUTOXYETHANOL May react dangerously with: aluminium,oxidising agents.Forms peroxides with: air.		
EPY 11.6.1 - SDS 1004.14		

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 12 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

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

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.

2-BUTOXYETHANOL

Avoid exposure to: sources of heat, naked flames.

10.5. Incompatible materials

CALCIUM CARBONATE

Incompatible with: acids.

CALCIUM CARBONATE PCC

Incompatible with: acids.

benzyl alcohol

Incompatible with: sulphuric acid, oxidising substances, aluminium.

10.6. Hazardous decomposition products

CALCIUM CARBONATE

May develop: calcium oxides, carbon oxides.

CALCIUM CARBONATE PCC

May develop: calcium oxides, carbon oxides.

2-BUTOXYETHANOL

May develop: hydrogen.

SECTION 11. Toxicological information

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 - vapours) of the mixture:

> 20 mg/l

ATE (Oral) of the mixture:

> 2000 mg/kg

ATE (Dermal) of the mixture:

Not classified (no significant component)

Corrosive to the respiratory tract.

CALCIUM CARBONATE

LD50 (Dermal):

> 2000 mg/kg Rat - OCSE 402

LD50 (Oral):

> 2000 mg/kg Rat - OCSE 425

LC50 (Inhalation mists/powders):

> 3 mg/l/4h Rat - OCSE 403

CALCIUM CARBONATE PCC

LD50 (Dermal):

> 2000 mg/kg rat

LD50 (Oral):

> 2000 mg/kg rat

LC50 (Inhalation mists/powders):

> 3 mg/l rat

PHENOL, STYRENATED

LD50 (Dermal):

> 2000 mg/kg rat

LD50 (Oral):

> 2000 mg/kg rat

LC50 (Inhalation mists/powders):

4,9 mg/l/4h rat

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 13 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

SECTION 11. Toxicological information ... / >>

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine LD50 (Oral):	910 mg/kg rat
A (ISOPROPYL) NAPHTHALENE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	> 4000 mg/kg rat > 4000 mg/kg rat > 5,6 mg/l rat
m-phenylenebis(methylamine) LD50 (Dermal): LD50 (Oral): STA (Oral):	3100 mg/kg rabbit > 200 mg/kg Rat - Sprague-Dawley 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 vapours): STA (Inhalation vapours):	1,34 mg/l Rat - Wistar 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)
titanium dioxide; [in powder containing <1 % of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] LD50 (Dermal): LD50 (Oral): LC50 (Inhalation mists/powders):	> 5000 mg/kg rabbit > 5000 mg/kg rat > 6,8 mg/l/4h rat
Fumes, silica LD50 (Dermal): LD50 (Oral): LC50 (Inhalation mists/powders):	> 5000 mg/kg Rabbit > 5000 mg/kg Rat 2,08 mg/l/4h Rat
benzyl alcohol LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	2000 mg/kg rabbit 1230 mg/kg rat > 4,178 mg/l/4h rat
2-BUTOXYETHANOL LD50 (Dermal): STA (Dermal):	612 mg/kg Rabbit - ECHA database 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)
LD50 (Oral): LC50 (Inhalation vapours):	1746 mg/kg Rat - ECHA database 750 ppm/7h Rat - ECHA database
maleic anhydride LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	2620 mg/kg rabbit 1090 mg/kg rat 4,35 mg/l/1h 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

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 14 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

SECTION 11. Toxicological information ... / >>

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 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 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
CALCIUM CARBONATE PCC	
EC50 - for Algae / Aquatic Plants	> 14 mg/l/72h
titanium dioxide; [in powder containing <1 % of particles with aerodynamic diameter ≤ 10 µm]	
LC50 - for Fish	> 1000 mg/l/96h Pimephales promelas
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Pseudokirchnerella subcapitata
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 Pseudokirchnerella subcapitata
Chronic NOEC for Crustacea	51 mg/l 21d - Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	310 mg/l 72h
maleic anhydride	
LC50 - for Fish	75 mg/l/96h
EC50 - for Crustacea	42,8 mg/l/48h
EC50 - for Algae / Aquatic Plants	74,35 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
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	
EC50 - for Algae / Aquatic Plants	43,5 mg/l/72h Pseudokirchnerella subcapitata
Chronic NOEC for Fish	10,9 mg/l Danio rerio
Chronic NOEC for Algae / Aquatic Plants	16 mg/l Pseudokirchnerella subcapitata

12.2. Persistence and degradability

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 15 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

SECTION 12. Ecological information ... / >>

p-toluenesulphonic acid (containing a maximum of 5 % H ₂ SO ₄)	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
m-phenylenebis(methylamine)	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
CALCIUM CARBONATE PCC	
Solubility in water	8 mg/l @ 20°C
titanium dioxide; [in powder containing <1 % of particles with aerodynamic diameter ≤ 10 µm]	
Solubility in water	< 0,001 mg/l
Degradability: information not available	
2-BUTOXYETHANOL	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
benzyl alcohol	
Rapidly degradable	
maleic anhydride	
Entirely degradable	
CALCIUM CARBONATE	
Solubility in water	0,1 - 100 mg/l
PHENOL, STYRENATED	
NOT rapidly degradable	

12.3. Bioaccumulative potential

p-toluenesulphonic acid (containing a maximum of 5 % H ₂ SO ₄)	
Partition coefficient: n-octanol/water	-0,96
m-phenylenebis(methylamine)	
Partition coefficient: n-octanol/water	0,18
2-BUTOXYETHANOL	
Partition coefficient: n-octanol/water	0,81
benzyl alcohol	
Partition coefficient: n-octanol/water	1,1
BCF	1,37

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 16 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

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. ((2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine; m-phenylenebis(methylamine))

IMDG: CORROSIVE LIQUID, N.O.S. ((2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine; m-phenylenebis(methylamine))

IATA: CORROSIVE LIQUID, N.O.S. ((2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine; m-phenylenebis(methylamine))

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
Special provision: 274

IMDG: EMS: F-A, S-B

IATA: Cargo:

Passengers:

Special provision:

Limited Quantities: 5 L

Limited Quantities: 5 L

Maximum quantity: 60 L

Maximum quantity: 5 L

A3, A803

Tunnel restriction code: (E)

Packaging instructions: 856

Packaging instructions: 852

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU:

E2

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 17 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

SECTION 15. Regulatory information ... / >>

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

Product	
Point	3
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

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

A (ISOPROPYL) NAPHTHALENE

m-phenylenebis(methylamine)

benzyl alcohol

2-BUTOXYETHANOL

maleic anhydride

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:

Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
Asp. Tox. 1	Aspiration hazard, category 1
Skin Corr. 1A	Skin corrosion, category 1A
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B
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
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 18 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

SECTION 16. Other information ... / >>

H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Use descriptor system:

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

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

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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)

Industria Chimica General S.r.l.

SP11A - EPOXY CER 90 PARTE B

Revision nr.9
Dated 23/07/2024
Printed on 23/07/2024
Page n. 19 / 19
Replaced revision:8 (Dated 27/07/2023)

EN

SECTION 16. Other information ... / >>

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)
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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 / 11 / 12 / 14 / 15 / 16.