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Replaced revision:8 (Dated 12/01/2023)

Safety Data Sheet

According to Annex II to REACH - Regulation 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

MP04A Code:

Product name **GENERAL VERTICALE**

Chemical name and synonym Mixture of polyester resins containing styrene

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

Intended use Polyester putty for marble, stones and agglomerates

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

Industria Chimica General S.r.l. Name Full address Via Repubblica di San Marino 8 District and Country 41122 Modena

(MO)

Italy

(+39) 059 450991 / 059 450978 Tel.

(+39) 059 450615 Fax

ricerca@generalchemical.it

e-mail address of the competent person

responsible for the Safety Data Sheet

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:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Reproductive toxicity, category 2	H361d	Suspected of damaging the unborn child.
Specific target organ toxicity - repeated exposure,	H372	Causes damage to organs through prolonged or repeated
category 1		exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure,	H335	May cause respiratory irritation.
category 3		
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.

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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:

H226 Flammable liquid and vapour.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H317 May cause an allergic skin reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

P201 Obtain special instructions before use.

P308+P313 IF exposed or concerned: Get medical advice / attention.

P501 Dispose of the product / container in an authorized installation according to national and local regulations.

Contains: styrene

maleic anhydride

2.3. Other hazards

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

The product 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

CAS 471-34-1 35 ≤ x < 50 Substance with a community workplace exposure limit.

EC 207-439-9

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REACH Reg. 01-2119486795-18

styrene

CAS 100-42-5 $10 \le x < 19$ Flam. Liq. 3 H226, Repr. 2 H361d, Acute Tox. 4 H332, STOT RE 1 H372, Asp.

Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP

Regulation: D

LC50 Inhalation vapours: 11,8 mg/l/4h

EC 202-851-5 INDEX 601-026-00-0 REACH Reg. 01-2119457861-32

SILICON DIOXIDE (nanoform)

CAS 7631-86-9 $0.05 \le x < 1$

EC 231-545-4

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

REACH Reg. 01-2119379499-16

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

CAS 13463-67-7 $0,05 \le x < 1$

EC 236-675-5 INDEX 022-006-00-2 REACH Reg. 01-2119489379-17

ethanol ethyl alcohol

CAS 64-17-5 $0.05 \le x < 1$ Flam. Liq. 2 H225, Eye Irrit. 2 H319

EC 200-578-6 INDEX 603-002-00-5 REACH Reg. 01-2119457610-43 1,1 '- (p-tolylimino)dipropan-2-ol

CAS 38668-48-3 0,05 ≤ x < 1 Acute Tox. 2 H300, Eye Irrit. 2 H319, Aquatic Chronic 3 H412

254-075-1 LD50 Oral: 25 mg/kg

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EC

REACH Reg. 01-2119980937-17

propan-2-ol

CAS 67-63-0 0,05 ≤ x < 1 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336

EC 200-661-7 INDEX 603-117-00-0 REACH Reg. 01-2119457558-25

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

CAS 0 ≤ x < 0,05 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 3

H412, EUH066

EC 927-241-2

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REACH Reg. 01-2119471843-32

Diethanol-p-TOLUIDIN

CAS 0 ≤ x < 0,05 Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Chronic 3 H412 911-490-9 LD50 Oral: 619 mg/kg

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EC

REACH Reg. 01-2119979579-10

maleic anhydride

CAS 108-31-6 0,001 \leq x < 0,05 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

Eye Irrit. 2 H319, Skin Irrit. 2 H315

 EC
 203-571-6
 Skin Sens. 1A H317: ≥ 0,001%

 INDEX
 607-096-00-9
 LD50 Oral: 1090 mg/l/1h

REACH Reg. 01-2119472428-31 **2-METHYLPENTANE-2,4-DIOL**

CAS 107-41-5 $0 \le x < 0.05$

EC 203-489-0 INDEX 603-053-00-3 REACH Reg. 01-2119539582-35

2,6-DI-TERT-BUTYL-p-CRESOL

CAS 128-37-0 0 ≤ x < 0,05 Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 204-881-4

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REACH Reg. 01-2119565113-46

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

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SECTION 3. Composition/information on ingredients

SILICON DIOXIDE (nanoform)

Denomination

Siloxanes and Silicones, Di-Me, Reaction Products with silica

Shape 1: silicon dioxide Silicon dioxide

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.

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

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

styrene

Acute dose-dependent effects. Skin: irritation, delipidization

Eyes: irritation

Nervous system: depression, dizziness, asthenia

Upper airways: irritation

Lungs: irritation, pulmonary edema Acute dose-dependent effects. Skin: irritation, delipidization

Eyes: irritation

Nervous system: depression, dizziness, asthenia

Upper airways: irritation

Lungs: irritation, pulmonary edema

Chronic effects.

Skin: irritative contact dermatitis

Nervous system: organic psychosyndrome, peripheral neuropathy, ototoxicity

Eyes: irritation, conjunctivitis

Lungs: irritation, chronic obstructive pulmonary disease

$\textbf{4.3.} \ \textbf{Indication of any immediate medical attention and special treatment needed}$

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA

The means of extinction are the traditional ones: carbon dioxide, foam, chemical powder. For leaks and spills of the product that did not ignite the nebulized water can be used to disperse flammable vapours and protect people who are committed to stop the leak.

UNSUITABLE MEANS OF EXTINCTION

Do not use water jets: The water is not effective to extinguish the fire, however it can be used to cool the closed containers exposed to the flame by preventing bursts and explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE

Overpressure may occur in containers exposed to fire with danger of explosion. Avoid breathing combustion products.

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SECTION 5. Firefighting measures .../>>

5.3. Advice for firefighters

GENERAL INFORMATION

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

Normal fire-fighting garments, such as a flameproof blanket, a polycarbonate helmet with a screen frame, full face mask with multipurpose ABEKP3 filter, gloves and anti-vibration coveralls, 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.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające

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SECTION 8. Exposure controls/personal protection

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

GBR United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

OEL EU Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 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 2021**

				CALCIUM	CARBONA	ATE
Threshold Limit	Value					
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	10				INHAL
OEL	EU	3				RESP
TLV-ACGIH		10				INHAL
TLV-ACGIH		3				RESP

				S	tyrene				
reshold Limit V	'alue								
Type	Country	TWA/8h		STEL/15	STEL/15min		Observations		
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	86	20	172	40				
VLA	ESP	85	20	170	40				
VLEP	FRA	215	50						
VLEP	ITA	600	200	900	300				
NDS/NDSCh	POL	50		200					
WEL	GBR	430	100	1080	250				
OEL	EU	600	200	900	300				
TLV-ACGIH			20		40		Biol. limit: 4	400mg/gKrea	atinina
redicted no-effe	ct concentra	ation - PNE	С						
Normal value in	fresh water						0,028	mg/l	
Normal value in	marine water	er					0,014	mg/l	
Normal value fo	r fresh wate	r sediment					0,418	mg/kg	
Normal value fo	r marine wa	ter sedimen	t				0,307	mg/kg	
Normal value fo	r water, inte	rmittent rele	ase				0,04	mg/l	
Normal value of	f STP microc	organisms					5	mg/l	
Normal value fo			ment				0,146	mg/kg/d	
ealth - Derived n								0 0	
	Effe	cts on cons	umers			Effects on we	orkers		
Route of exposu	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
•	loca	al sys	stemic	local	systemic	local	systemic	local	systemic
Oral		-,			0,0077		,		,
					mg/kg/d				
Inhalation	10	10		1	1	100	100	100	85
	mg/	m3 mc	ı/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin	<u>J</u>		•	ŭ	343	Ŭ	<u> </u>	- J	406
					mg/kg/d				mg/kg/d

			SILICO	N DIOXIDE		
√ alue						
Country	TWA/8h		STEL/15	min	Remarks / Observations	
	mg/m3	ppm	mg/m3	ppm		
	10				INHAL	
	3				RESP	
		Country TWA/8h mg/m3	Country TWA/8h mg/m3 ppm	Value Country TWA/8h STEL/15 mg/m3 ppm mg/m3	Value Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm	Country TWA/8h STEL/15min Remarks / Observations mg/m3 ppm mg/m3 ppm INHAL

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hreshold Limit Va	llue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
VLA	ESP	10							
VLEP	FRA	10							
WEL	GBR	4							
TLV-ACGIH		10							
Predicted no-effect	t concentra	tion - PNE	3						
Normal value in f	fresh water						0,184	mg/l	
Normal value in i	marine wate	er					0,0184	mg/l	
Normal value for	fresh water	sediment					1000	mg/kg	
Normal value for	marine wat	er sediment					100	mg/kg	
Normal value for	water, inter	mittent relea	ase				0,193	mg/l	
Normal value of	STP microo	rganisms					100	mg/l	
Normal value for	the terrestr	ial compartr	nent				100	mg/kg	
Health - Derived no	o-effect leve	el - DNEL /	DMEL						
	Effe	cts on consu	ımers			Effects on w	orkers		
Route of exposur	re Acut	te Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
,	loca	l sys	temic	local	systemic	local	systemic	local	systemic
Inhalation		•			700		•	10	
					mg/kg			mg/m3	
				441771					
Predicted no-effect	t concentra	tion - PNE	3	1,1 '- (p-tolylin	nino)dipropai	n-2-ol			
Normal value in t	fresh water						0,017	mg/l	
Normal value in i	marine wate	er					0,00782	mg/l	
Normal value for	water, inter	mittent relea	ase				0,17	mg/l	
Normal value of							199.5	mg/l	
Health - Derived no			DMEL				,-		
		cts on consu				Effects on w	orkers		
Route of exposur				Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca		temic	local	systemic	local	systemic	local	systemic
	. 500	0,0			- ,		-,		2
Inhalation									_
Inhalation									ma/m3
Inhalation									mg/m3 0.6
									mg/m3 0.6 mg/kg

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

				etha	ınol				
					ethyl alco	hol			
hreshold Limit \	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
,,	,	mg/m3	ppm	mg/m3	ppm				
AGW	DEU	960	500	1920	1000				
MAK	DEU	960	500	1920	1000				
VLA	ESP			1910	1000				
VLEP	FRA	1900	1000	9500	5000				
NDS/NDSCh	POL	1900							
TLV	ROU	1900	1000	9500	5000				
WEL	GBR	1920	1000						
TLV-ACGIH				1884	1000				
Predicted no-effe	ct concentr	ation - PNE	С						
Normal value ir	n fresh water	•					0,96	mg/l	
Normal value ir	n marine wat	er					0,79	mg/l	
Normal value for	or fresh wate	r sediment					3,6	mg/kg	
Normal value for	or marine wa	ter sedimen	t				2,9	mg/kg	
Normal value for	or the terrest	rial comparti	ment				0,63	mg/kg	
Health - Derived I	no-effect lev	el - DNEL /	DMEL						
	Effe	ects on consi	umers			Effects on wo	orkers		
Route of expos	ure Acı	ıte Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sys	stemic	local	systemic	local	systemic	local	systemic
Oral					87				
					mg/kg/d				
Inhalation	950)			114	1900			
	mg.	/m3			mg/m3	mg/m3			
Skin		114	4		206				343
					mg/kg/d				mg/kg/d

				pro	pan-2-ol				
hreshold Limit \	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	500	200	1000	400				
MAK	DEU	500	200	1000	400				
VLA	ESP	500	200	1000	400				
VLEP	FRA			980	400				
NDS/NDSCh	POL	900		1200					
WEL	GBR	999	400	1250	500				
TLV-ACGIH		492	200	983	400				
Predicted no-effe	ct concentr	ation - PNE	C						
Normal value in	n fresh water						140,9	mg/l	
Normal value in	n marine wat	er					140,9	mg/l	
Normal value for	or fresh wate	r sediment					552	mg/kg	
Normal value for	or marine wa	ter sediment					552	mg/kg	
Normal value for	or water, inte	rmittent rele	ase				140,9	mg/l	
Normal value of	f STP micro	organisms					2251	mg/l	
Normal value for	or the food cl	nain (second	ary poison	ing)			160	mg/kg	
Normal value for	or the terrest	rial compartr	nent				28	mg/kg	
lealth - Derived	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on consu	ımers			Effects on wo	orkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sys	temic	local	systemic	local	systemic	local	systemic
Oral		-			26		-		•
					mg/kg				
Inhalation					89				500
					mg/m3				mg/m3
Skin					319				888
					mg/kg				mg/kg

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

	Ну	drocarbons, C9	-C10, n-alkane:	s, isoalkanes,	cyclics, <2%	aromatics		
ealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on w	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				125				
				mg/kg/d				
Inhalation				185				871
				mg/m3				mg/m3
Skin				125				208
				mg/kg/d				mg/kg/d

			Diethand	ol-p-TOLUIDIN				
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,048	mg/l	
Normal value in marir	ne water					0,0048	mg/l	
Normal value for fres	h water sed	iment				1,2	mg/kg	
Normal value for mar	ine water se	ediment				0,12	mg/kg	
Normal value for water	er, intermitte	ent release				0,48	mg/l	
Normal value for the	terrestrial co	mpartment				0,21	mg/kg	
Health - Derived no-effe	ect level - D	NEL / DMEL						
	Effects o	n consumers			vorkers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral			0.83					
			mg/kg/d					
Inhalation			2.9				9.8	
			mg/m3				mg/m3	
Skin			0.83				1.4	
			mg/kg/d				mg/kg/d	

				maleic	anhydride				
hreshold Limit Valu	IE.			maicio	umyumuc				
	Country	TWA/8h		STFL/15r	min	Remarks / Obs	ervations		
1,700	ournay y	mg/m3	ppm	mg/m3	ppm	rtomanto / Obo	oi valiono		
OEL E	U	mg/mo	0,1	mg/mo	ppiii				
TLV-ACGIH		0.01	0, 1						
Predicted no-effect of	concentrat	- , -							
Normal value in fre							0,1	mg/l	
Normal value in ma							0,01	mg/l	
Normal value for fr							0,334	mg/kg	
Normal value for m							0,0334	mg/kg	
Normal value for w			se.				0.4281	mg/l	
Normal value of ST							0,00446	mg/l	
Normal value for th		-	ry poisoning	1)			6,67	mg/kg	
Normal value for th							0.0415	mg/kg	
lealth - Derived no-							-,	99	
	Effect	ts on consun	ners			Effects on worke	rs		
Route of exposure				Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	syste	emic	local	systemic	local	systemic	local	systemic
Oral		0,1			0,06		,		,
		mg/k	g bw/d		mg/kg bw/d				
Inhalation			-	0,08	0,05	0,8	0,8	0,32	0,19
				mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin		0,1			0,1	-	0,2	-	0,2
		mg/k	g bw/d		mg/kg bw/d		mg/kg		mg/kg
							bw/d		bw/d

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

				2-METHYLPE	NTANE-2,4-DI	OL			
reshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15min		Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
MAK	DEU	49	10	98	20				
VLA	ESP			123	25				
VLEP	FRA			125	25				
NDS/NDSCh	POL	50		100		INHAL			
WEL	GBR	123	25	123	25				
TLV-ACGIH			25		50				
TLV-ACGIH				10		INHAL			
edicted no-effe	ct concentra	ation - PNE	C						
Normal value in fresh water							0,429	mg/l	
Normal value in marine water							0,043	mg/l	
Normal value for fresh water sediment							1,59	mg/kg	
Normal value for	ter sediment	İ				0,159	mg/kg		
Normal value of	f STP microo	organisms					20	mg/l	
Normal value for the terrestrial compartment							0,066	mg/kg	
ealth - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on consu	umers			Effects on wo	orkers		
Route of expos	ure Acu	te Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	ıl sys	stemic	local	systemic	local	systemic	local	systemic
Oral					1,5				
					mg/kg bw/d				
Inhalation	49			25	7,8	98		49	44,4
	mg/	m3		mg/m3	mg/m3	mg/m3		mg/m3	mg/m3
					15				42
Skin									

			2	2,6-DI-TERT-B	UTYL-p-CRES	SOL			
hreshold Limit Va	lue				•				
Туре	Country	TWA/8h		STEL/15	min	Remarks / O	bservations		
		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH		2				INHAL			
redicted no-effect	concentrat	ion - PNEC							
Normal value in fresh water							0,1	mg/l	
Normal value in n				0,01	mg/l				
Normal value for fresh water sediment							0,392	mg/kg	
Normal value for			0,0392	mg/kg					
Normal value of S				100	mg/l				
Normal value for the terrestrial compartment							0,0197	mg/kg	
lealth - Derived no									
		Effects on consumers					Effects on workers		
Route of exposur	e Acute	e Acute)	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	syste	mic	local	systemic	local	systemic	local	systemic
Oral		61,9			5				
		mg/ko	g bw/d		mg/kg bw/d				
Inhalation		215,1			8,7		872,4		35,3
		mg/m3			mg/m3		mg/m3		mg/m3
Skin		61,9			5		123,7		10
		mg/kg	g bw/d		mg/kg bw/d		mg/kg		mg/kg
							bw/d		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.

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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. EYE PROTECTION

Wear splash goggles with side shields and / or protective visors complying with EN 166 and EN 165. Do not use eye lenses.

If there is a risk of being exposed to splashes or sprays in relation to the work performed, it is necessary to provide adequate protection of the mucous membranes (mouth, nose, eyes) in order to avoid accidental absorption through a face shield.

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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Value Information

Appearance paste
Colour various colors
Odour aromatic
Odour threshold 0.15-25 ppm (9

Odour threshold 0,15-25 ppm (STYRENE)
Melting point / freezing point -31 °C

Initial boiling point °C 145 Boiling range not applicable Flammability not applicable (pastes) Lower explosive limit not applicable Upper explosive limit not applicable $23 \le T \le 60$ Flash point Auto-ignition temperature 490 °C Decomposition temperature non decô@pone not applicable рΗ

Kinematic viscosity >20,5 mm2/sec @ 40°C
Solubility partially soluble in organic

solvents

Partition coefficient: n-octanol/water 2,96 logPow (STYRENE) Vapour pressure 6 hPa @ 20°C (STYRENE)

Density and/or relative density 1,6 g/cm3
Relative vapour density 3,6 (STYRENE)
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 0,536 (STYRENE)

Total solids (250°C / 482°F) 60,33 %

 VOC (Directive 2010/75/EU)
 15,52 % - 248,31 g/litre

 VOC (volatile carbon)
 14,21 % - 227,42 g/litre

Explosive properties not explosive Oxidising properties non-oxidizing

Water solubility 160 - 343 mg/l @ 25°C

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(STYRENE)

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.

styrene

Polymerises at temperatures above 65°C/149°F. Fire hazard. Possibility of explosion.

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

Cures at temperatures above 65 ° C / 149 ° F. Possibility of fire. Possibility of explosion.

It is added with an inhibitor that requires a small amount of dissolved oxygen at temperatures <25 ° C / 77 ° F.

2-METHYLPENTANE-2,4-DIOL

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

In normal use and storage conditions dangerous reactions are not predictable.

styrene

May react dangerously with: peroxides, strong acids. May polymerise on contact with: aluminium trichloride, azobisisobutyronitrile, dibenzoyl peroxide, sodium. Risk of explosion on contact with: butyllithium, chlorosulphuric acid, diterbutyl peroxide, oxidising substances, oxygen.

ethanol

ethyl alcohol

Risk of explosion on contact with: alkaline metals,alkaline oxides,calcium hypochlorite,sulphur monofluoride,acetic anhydride,acids,concentrated hydrogen peroxide,perchlorates,perchloric acid,perchloronitrile,mercury nitrate,nitric acid,silver,silver nitrate,ammonia,silver oxide,ammonia,strong oxidising agents,nitrogen dioxide.May react dangerously with: bromoacetylene,chlorine acetylene,bromine trifluoride,chromium trioxide,chromyl chloride,fluorine,potassium tert-butoxide,lithium hydride,phosphorus trioxide,black platinum,zirconium (IV) chloride,zirconium (IV) iodide.Forms explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating. Avoid the accumulation of electrostatic charges. Avoid any source of ignition.

styrene

Avoid contact with: oxidising substances, copper, strong acids.

ethanol

ethyl alcohol

Avoid exposure to: sources of heat,naked flames.

2-METHYLPENTANE-2,4-DIOL

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

CALCIUM CARBONATE

Incompatible with: acids.

styrene

Incompatible materials: plastic materials.

2-METHYLPENTANE-2,4-DIOL

Incompatible with: strong acids, strong oxidants. Compatible materials: carbon steel, aluminium.

10.6. Hazardous decomposition products

Due to thermal decomposition or in case of fire, potentially harmful gases and vapors can be released.

CALCIUM CARBONATE

May develop: calcium oxides, carbon oxides.

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

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SECTION 11. Toxicological information .../>>

Information on likely routes of exposure

styrene

WORKERS: inhalation; contact with the skin.

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

stvrene

Acute inhalation toxicity at 1000 ppm affects the central nervous system with headaches, dizziness and coordination difficulties; irritation of the mucous membranes of the eyes and respiratory tract occurs at 500 ppm. Chronic exposure gives depression of the central and peripheral nervous system with memory loss, headaches and drowsiness starting from 35 ppm; digestive disorders with nausea and loss of appetite; respiratory tract irritation with chronic bronchitis; dermatosis. Repeated exposure, at low doses of inhaled substance, causes irreversible changes in auditory function and can cause changes in color vision. There are no reliable data on the reversibility of visual impairment. Repeated skin exposures cause irritation. The substance degreases the skin, which can cause dryness and cracking.

Interactive effects

styrene

The metabolism of the substance is inhibited by ethanol. When styrene is photo-oxidised with ozone and nitrogen dioxide, as in the formation of smog, highly irritating products for the eyes can occur in humans.

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)

CALCIUM CARBONATE

 LD50 (Dermal):
 2000 mg/kg rat

 LD50 (Oral):
 2000 mg/kg rat

 LC50 (Inhalation vapours):
 > 3 mg/l rat

styrene

 LD50 (Dermal):
 2000 mg/kg rat

 LD50 (Oral):
 6000 mg/kg hamster

 LC50 (Inhalation vapours):
 11,8 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

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

 LD50 (Dermal):
 > 5000 mg/kg rabbit

 LD50 (Oral):
 > 5000 mg/kg rat

 LC50 (Inhalation mists/powders):
 > 6,8 mg/l/4h rat

1,1 '- (p-tolylimino)dipropan-2-ol

 LD50 (Dermal):
 > 2000 mg/kg rabbit

 LD50 (Oral):
 25 mg/kg rat

ethanol ethyl alcohol

LD50 (Oral): > 5000 mg/kg Rat LC50 (Inhalation vapours): 120 mg/l/4h

propan-2-ol

 LD50 (Dermal):
 16,4 ml/kg rabbit

 LD50 (Oral):
 5840 mg/kg rat

 LC50 (Inhalation vapours):
 > 10000 ppm/6h rat

Diethanol-p-TOLUIDIN

 LD50 (Dermal):
 > 2000 mg/kg

 LD50 (Oral):
 619 mg/kg

Εľ

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SECTION 11. Toxicological information/>>

maleic anhydride

LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): 2620 mg/kg rabbit 1090 mg/kg rat 4,35 mg/l/1h rat

2-METHYLPENTANE-2,4-DIOL

LD50 (Dermal): > 5000 mg/kg rat - OECD guideline 402 LD50 (Oral): > 5000 mg/kg rat - OECD guideline 420

2,6-DI-TERT-BUTYL-p-CRESOL

LD50 (Dermal): > 2000 mg/kg rat LD50 (Oral): > 2930 mg/kg rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

styrene

Classified in group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2002). Classified as "probable carcinogen" by the US National Toxicology Program (NTP) - (US DHHS, 2014).

REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

May cause respiratory irritation

Target organs

Information not available

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Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Causes damage to organs

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: >20,5 mm2/sec @ 40°C

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

12.1. Toxicity

propan-2-ol

EC50> 10000 mg / I / 24 h Daphnia magna

EC50 1800 mg / I / 7 d Scenedesmus quadricauda

1,1 '- (p-tolylimino)dipropan-2-ol

 LC50 - for Fish
 17 mg/l/96h

 EC50 - for Crustacea
 28,8 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 245 mg/l/72h

CALCIUM CARBONATE

EC50 - for Algae / Aquatic Plants 14 mg/l/72h

SILICON DIOXIDE

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

titanium dioxide; [in powder containing <1 % of particles with aerodynamic diameter \leq 10 μ m] LC50 - for Fish > 1000 mg/l/96h Pimephales promelas

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Pseudokirchnerella subcapitata

styrene

 LC50 - for Fish
 4,02 mg/l/96h

 EC50 - for Crustacea
 4,7 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 4,9 mg/l/72h

 EC10 for Algae / Aquatic Plants
 0,28 mg/l/4d

 Chronic NOEC for Crustacea
 1,01 mg/l/21d

2-METHYLPENTANE-2,4-DIOL

LC50 - for Fish 10700 mg/l/96h Pimephales promelas EC50 - for Crustacea 3200 mg/l/48h Daphnia magna

propan-2-ol

LC50 - for Fish 9640 mg/l/96h Pimephales promelas

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

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SECTION 12. Ecological information .../>>

Diethanol-p-TOLUIDIN

> 100 mg/l/96h LC50 - for Fish EC50 - for Crustacea 48 mg/l/48h > 100 mg/l/72h EC50 - for Algae / Aquatic Plants

2,6-DI-TERT-BUTYL-p-CRESOL

199 mg/l/96h LC50 - for Fish 0,42 mg/l/72h EC10 for Algae / Aquatic Plants

12.2. Persistence and degradability

CALCIUM CARBONATE

Solubility in water 8 mg/l @ 20°C

stvrene

Solubility in water 320 mg/l

Rapidly degradable

ethanol ethyl alcohol

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

2-METHYLPENTANE-2,4-DIOL

> 10000 mg/l Solubility in water

Rapidly degradable

propan-2-ol Rapidly degradable

maleic anhydride Entirely degradable

Diethanol-p-TOLUIDIN NOT rapidly degradable

2,6-DI-TERT-BUTYL-p-CRESOL Degradability: information not available

12.3. Bioaccumulative potential

1,1 '- (p-tolylimino)dipropan-2-ol

Partition coefficient: n-octanol/water 2,1 Log Kow

styrene

Partition coefficient: n-octanol/water 2,96 BCF

ethanol ethyl alcohol

Partition coefficient: n-octanol/water -0,35

2-METHYLPENTANE-2.4-DIOL

Partition coefficient: n-octanol/water < -0,14

propan-2-ol

Partition coefficient: n-octanol/water 0.05

Diethanol-p-TOLUIDIN

Partition coefficient: n-octanol/water 2,17 Log Kow TEST OCSE N.117

12.4. Mobility in soil

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styrene

Partition coefficient: soil/water 2,55

Diethanol-p-TOLUIDIN

Partition coefficient: soil/water 2,33 @20°C, test OCSE N.121

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

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: 3269

14.2. UN proper shipping name

ADR / RID: POLYESTER RESIN KIT SOLUTION IMDG: POLYESTER RESIN KIT SOLUTION IATA: POLYESTER RESIN KIT SOLUTION

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

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SECTION 14. Transport information .../>>

14.6. Special precautions for user

ADR / RID: HIN - Kemler: -- Limited Quantities: 5 L Tunnel restriction code: (E)

Special provision: 0

IMDG: EMS: F-E, S-D Limited Quantities: 5 L

IATA: Cargo: Maximum quantity: 10 Kg Packaging instructions: 370 Pass.: Maximum quantity: 10 Kg Packaging instructions: 370

Special provision: A163

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: P5c

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 ≥ 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

CALCIUM CARBONATE

styrene

1,1 '- (p-tolylimino)dipropan-2-ol

propan-2-ol

Diethanol-p-TOLUIDIN

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:

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Repr. 2 Reproductive toxicity, category 2
Acute Tox. 2 Acute toxicity, category 2
Acute Tox. 4 Acute toxicity, category 4

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SECTION 16. Other information .../>>

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

Asp. Tox. 1

Skin Corr. 1B

Skin corrosion, category 1

Skin corrosion, category 1B

Eye Dam. 1

Eye Irrit. 2

Skin Irrit. 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. 1A Skin sensitization, category 1A

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.

H361d Suspected of damaging the unborn child.

H300 Fatal if swallowed. **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.

H335 May cause respiratory irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic 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 as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

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Replaced revision:8 (Dated 12/01/2023)

SECTION 16. Other information .../>>

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

02 / 03 / 11.