

**BELLINZONI S.R.L.**

Revision nr. 2

Dated 07/03/2023

Printed on 07/03/2023

Page n. 1/21

Replaced revision:1 (Printed on: 13/01/2021)

MASTICE 2000 TRASPARENTE SOLIDO B00

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: 301MTRV - 301MTRV00750 - 301MTRV004 - 301MTRV18
Product name: MASTICE 2000 TRASPARENTE SOLIDO B00
UFI: NAA0-P0YS-G00H-1S8E

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

Intended use: Adhesive mastic for marble and stone

Identified Uses	Industrial	Professional	Consumer
Putty	-	PC: 1. LCS: PW.	-

1.3. Details of the supplier of the safety data sheet

Name: BELLINZONI S.R.L.
Full address: Via Mezzano 64
District and Country: 28069 Trecate (NO)
Italy
Tel. +39 0321 770558

e-mail address of the competent person

responsible for the Safety Data Sheet: laboratorio@bellinzoni.com
Supplier: BELLINZONI S.r.l.

1.4. Emergency telephone number

For urgent inquiries refer to

- CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA – Roma - Piazza Sant'Onofrio, 4 CAP: 00165 – Telefono: 06 68593726 – Responsabile: Marco Marano
- Az. Osp. Univ. Foggia – Foggia - V.le Luigi Pinto, 1 – CAP: 71122 – Telefono: 800183459 – Responsabile: Anna Lepore
- Az. Osp. "A. Cardarelli" – Napoli - Via A. Cardarelli, 9 – CAP: 80131081- Telefono: 5453333 – Responsabile: Romolo Villani
- CAV Policlinico "Umberto I" - Roma - V.le del Policlinico, 155 – CAP: 161 – Telefono: 06-49978000 – Responsabile: M. Caterina Grassi
- CAV Policlinico "A. Gemelli" - Roma - Largo Agostino Gemelli, 8 – CAP: 168 – Telefono: 06-3054343 – Responsabile: Alessandro Barelli
- Az. Osp. "Careggi" U.O. Tossicologia Medica – Firenze - Largo Brambilla, 3 – CAP: 50134 – Telefono: 055-7947819 – Responsabile: Francesco Gambassi
- CAV Centro Nazionale di Informazione Tossicologica - Pavia – Via Salvatore Maugeri, 10 – CAP: 27100 - Telefono: 0382-24444 – Responsabile: Carlo Locatelli
- Osp. Niguarda Ca' Granda – Milano - Piazza Ospedale Maggiore, 3 – CAP: 20162 – Telefono: 02-66101029 – Responsabile: Franca Davanzo
- Azienda Ospedaliera Papa Giovanni XXII – Bergamo - Piazza OMS, 1 – CAP: 24127 – Telefono: 800883300 – Responsabile: Bacis Giuseppe
- Azienda Ospedaliera Integrata Verona – Verona - Piazzale Aristide Stefani, 1 – CAP: 37126 – Telefono 800011858

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SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

This product is not classified H304 due to its high viscosity.

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, category 1	H372	Causes damage to organs through prolonged or repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

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.
H412	Harmful to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

Precautionary statements:

P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust / fume / gas / mist / vapours / spray.
P280	Wear protective gloves / eye protection / face protection.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Contains: STYRENE, MALEIC ANHYDRIDE

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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

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
STYRENE		
INDEX 601-026-00-0	$35 \leq x < 40$	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		
CAS 100-42-5		
REACH Reg. 01-2119457861-32		
ETHANOL		
INDEX 603-002-00-5	$0,1 \leq x < 0,25$	Flam. Liq. 2 H225, Eye Irrit. 2 H319
EC 200-578-6		
CAS 64-17-5		
REACH Reg. 01-2119457610-43		
N, N-BIS- (2-HYDROXYPROPYL) - P-TOLUIDINE		
INDEX -	$0,1 \leq x < 0,25$	Acute Tox. 2 H300, Eye Irrit. 2 H319, Aquatic Chronic 3 H412 LD50 Oral: 25 mg/kg
EC 254-075-1		
CAS 38668-48-3		
REACH Reg. 01-2119980937-17		
PROPAN-2-OL		
INDEX 603-117-00-0	$0,1 \leq x < 0,25$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
EC 200-661-7		
CAS 67-63-0		
REACH Reg. 01-2119457558-25		
MALEIC ANHYDRIDE		
INDEX 607-096-00-9	$0,05 \leq x < 0,1$	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: $\geq 0,001\%$
EC 203-571-6		
CAS 108-31-6		LD50 Oral: 400 mg/kg
REACH Reg. 01-2119472428-31		

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

STYRENE

Classification note according to Annex VI of the CLP Regulation: D

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SECTION 4. First aid measures

4.1. Description of first aid measures

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

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

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

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

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

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

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

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.

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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:

AUS	Österreich	Gesamte Rechtsvorschrift für Grenzwerteverordnung 2021 , Fassung vom 17.06.2021
BEL	Belgique	Liste de valeurs limites d'exposition aux agents chimiques, livre VI du code du bien-être au travail
BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail: VME/VLE (SUVA). Grenzwerte am Arbeitsplatz: MAK (SUVA)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötavishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH

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GRC	Ελλάδα	HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25 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``» Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelethe a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021) 2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019) Jsakymas dėl lietuvis higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §) Forskrift om endring i forskrift om tiltaksverdi og grenseverdi for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdi), 21. august 2018 nr. 1255 Arbidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbidsomstandighedenbesluit 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 Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006 Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1) NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénym a mutagénym faktorom pri práci v znení neskorších predpisov Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19) EH40/2005 Workplace exposure limits (Fourth Edition 2020) 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. ACGIH 2022							
HUN	Magyarország								
HRV	Hrvatska								
IRL	Éire								
LTU	Lietuva								
LVA	Latvija								
NOR	Norge								
NLD	Nederland								
POL	Polska								
ROU	România								
SWE	Sverige								
SVK	Slovensko								
SVN	Slovenija								
GBR	United Kingdom								
EU	OEL EU								
	TLV-ACGIH								
STYRENE									
Threshold Limit Value									
Type	Country					TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	86	20	172	40				
MAK	DEU	86	20	172	40				
VLA	ESP	86	20	172	40				
VLEP	FRA	215	50						
WEL	GBR	430	100	1080	250				
OEL	EU		20		40				
					peripheral neuropathy				
OEL	EU	85	20	170	40				
					SKIN				
TLV-ACGIH		85	20	170	40				
Predicted no-effect concentration - PNEC									
Normal value in fresh water				0,028	mg/l				
Normal value in marine water				0,028	mg/l				
Normal value for fresh water sediment				0,614	mg/l				
Normal value for marine water sediment				0,0614	mg/l				
Normal value for water, intermittent release				0,04	mg/l				
Normal value of STP microorganisms				5	mg/l				
Normal value for the terrestrial compartment				0,2	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			VND	2,1 mg/kg bw/d				
Inhalation	182,75 mg/m3	174,25 mg/m3	VND	10,2 mg/m3	306 mg/m3	289 mg/m3	VND	85 mg/m3
Skin			VND	343 mg/kg bw/d			VND	406 mg/kg bw/d

ETHANOL								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
MAK	AUS	1900	1000	3800	2000	STEL:60(Mow),Häufigkeit/Sch:3x		
VLEP	BEL	1907	1000					
TLV	BGR	1000						
MAK	CHE	960	500	1920	1000			
VME/VLE	CHE	960	500	1920	1000			
TLV	CZE	1000	522	3000	1566			
AGW	DEU	380	200	1520	800			
MAK	DEU	380	200	1520	800			
TLV	DNK	1900	1000					
VLA	ESP			1910	1000			
TLV	EST	1000	500	1900	1000			
VLEP	FRA	1900	1000	9500	5000			
HTP	FIN	1900	1000	2500	1300			
TLV	GRC	1900	1000					
AK	HUN	1900		3800				
GVI/KGVI	HRV	1900	1000					
OELV	IRL				1000			
RD	LTU	1000	500	1900	1000			
RV	LVA	1000						
TLV	NOR	950	500					
TGG	NLD	260		1900		SKIN		
NDS/NDSch	POL	1900						
TLV	ROU	1900	1000	9500	5000			
NGV/KGV	SWE	1000	500	1900 (C)	1000 (C)			
NPEL	SVK	960	500	1920	1000			
MV	SVN	960	500	1920	1000			
WEL	GBR	1920	1000					
TLV-ACGIH				1884	1000			

Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,96	mg/l			
Normal value in marine water				0,79	mg/l			

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Normal value for fresh water sediment	3,6	mg/kg
Normal value for marine water sediment	2,9	mg/kg
Normal value for water, intermittent release	2,75	mg/l
Normal value of STP microorganisms	580	mg/l
Normal value for the terrestrial compartment	0,63	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				87 mg/kg				
Inhalation	950 mg/m3			114 mg/m3	1900 mg/m3	950		950 mg/m3
Skin				206 mg/kg				343 mg/kg

N, N-BIS- (2-HYDROXYPROPYL) -P-TOLUIDINE								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,017		mg/l		
Normal value in marine water				0,00782		mg/l		
Normal value of STP microorganisms				199,5		mg/l		
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								2 mg/m3
Skin								0,6 mg/kg

PROPAN-2-OL						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	500	200	2000	800	Häufigkeit pro Schicht:4x
VLEP	BEL	500	200	1000	400	
TLV	BGR	980		1225		
MAK	CHE	500	200	1000	400	
VME/VLE	CHE	500	200	1000	400	
TLV	CZE	500	200	1000	400	
AGW	DEU	500	200	1000	400	
MAK	DEU	500	200	1000	400	
TLV	DNK	490	200			
VLA	ESP	500	200	1000	400	
TLV	EST	350	150	600	250	
VLEP	FRA			980	400	
TLV	GRC	980	400	1225	500	
AK	HUN	500		1000		SKIN
GVI/KGVI	HRV	999	400	1250	500	

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OELV	IRL	200		400		SKIN			
RD	LTU	350	150	600	250				
RV	LVA	350	600						
TLV	NOR	245	100						
TGG	NLD	650							
NDS/NDSch	POL	900	1200		SKIN				
TLV	ROU	200	81	500	203				
NGV/KGV	SWE	350	150	600 (C)	250 (C)				
NPEL	SVK	500	200	1000	400				
MV	SVN	500	200	2000	800				
WEL	GBR	999	400	1250	500				
TLV-ACGIH		492	200	983	400				
Predicted no-effect concentration - PNEC									
Normal value in fresh water				140,9	mg/l				
Normal value in marine water				140,9	mg/l				
Normal value for fresh water sediment				552	mg/kg dw				
Normal value for marine water sediment				552	mg/kg dw				
Normal value for water, intermittent release				140,9	mg/l				
Normal value of STP microorganisms				2251	mg/l				
Normal value for the terrestrial compartment				28	mg/kg dw				
Health - Derived no-effect level - DNEL / DMEL									
	Effects on consumers			Effects on workers					
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral			VND	26 mg/kg bw/d					
Inhalation			VND	89 mg/m3			VND	500 mg/m3	
Skin			VND	319 mg/kg bw/d			VND	888 mg/kg bw/d	
MALEIC ANHYDRIDE									
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
MAK	AUS	0,4	0,1	0,8 (C)	0,2 (C)	Häufigkeit pro Schicht:8x			
VLEP	BEL	0,01	0,0025						
TLV	BGR	1							
MAK	CHE	0,4	0,1	0,4	0,1				
VME/VLE	CHE	0,4	0,1	0,4	0,1				
TLV	CZE	1	0,245	2	0,49				
AGW	DEU	0,081	0,02	0,081 (C)	0,02 (C)				
MAK	DEU	0,081	0,02	0,081 (C)	0,02 (C)	C = 0,20 mg/m3			
TLV	DNK	0,4	0,1						
VLA	ESP	0,4	0,1						

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TLV	EST	1,2	0,3	2,5	0,6	
VLEP	FRA			1		
HTP	FIN	0,41	0,1	0,81 (C)	0,2 (C)	
TLV	GRC	1				
AK	HUN	0,08		0,08		
GVI/KGVI	HRV	0,41	0,1	0,8	0,2	INHAL
GVI/KGVI	HRV	0,41	0,1	0,8	0,2	SKIN
OELV	IRL		0,01			INHAL Vapour
RD	LTU	1,2	0,3	2,5	0,6	
RV	LVA	1				
TLV	NOR	0,8	0,2			
NDS/NDSch	POL	0,5		1		SKIN
TLV	ROU	1	0,25	3	0,75	
NGV/KGV	SWE	0,2	0,05	0,4	0,1	
NPEL	SVK	0,41	0,1			
MV	SVN	0,41	0,1	0,41	0,1	
WEL	GBR	1		3		
TLV-ACGIH		0,01	0,0025			

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.

STYRENE

Value: 400 mg / g creatinine - moderate: Urine - Biological Indicator: Mandelic acid + phenylglyoxylic acid in urine - Collection Period: End of shift Value: 40 mg / l creatinine - moderate: Urine - Biological Indicator: Styrene in urine - Period Withdrawal: End of the shift

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).

HAND PROTECTION

Nitrile gloves according to EN374 class 3 (F) permeation time > 60 minutes. Material thickness 0.4 mm. Gloves should be discarded and replaced if there is any sign of degradation or chemical transfer. The effective duration of the protection provided depends on the conditions of use; consult the supplier.

SKIN PROTECTION

Wear clothing that guarantees full skin protection in accordance with EN 14605 Type 4 in case of splashes, e.g. in Tyrek. Please note: the garment must be changed immediately if it comes into contact with the product

EYE PROTECTION

Use closed safety visors or hermetic protective goggles (e.g. EN166 F3), do not use eye lenses.

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

RESPIRATORY PROTECTION

Use an adequate respiratory protection device, mask with filter "A", brown, for organic gases and vapors with boiling point >65°C.

ENVIRONMENTAL EXPOSURE CONTROLS

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

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	straw-coloured	
Odour	characteristic	Substance:STYRENE
Odour threshold	-31°C	
Melting point / freezing point	not available	Substance:STYRENE Temperature: -31 °C
Initial boiling point	145 °C	Substance:STYRENE
Flammability	Flam. Liq. 3,H226	
Lower explosive limit	not available	Concentration: 1,1 % Substance:STYRENE
Upper explosive limit	not available	Concentration: 8,9 % Substance:STYRENE
Flash point	32 °C	Substance:STYRENE
Auto-ignition temperature	490 °C	Substance:STYRENE
Decomposition temperature	not available	
pH	not available	Reason for missing data:the mixture is not polar / aprotic
Kinematic viscosity	> 20,5 mm2/s	Temperature: 40 °C
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	not available	Reason for missing data:The product is a blend
Vapour pressure	6,7 mmHg	Substance:STYRENE
Density and/or relative density	1,155 g/cm3	
Relative vapour density	3,6 (air = 1)	Substance: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

Total solids (250°C / 482°F)	67,12 %	
VOC (Directive 2010/75/EU)	32,88 % - 379,76 g/litre	
VOC (volatile carbon)	28,00 % - 323,40 g/litre	
Explosive properties	not explosive	Remark:it does not contain substances classified as explosive
Oxidising properties	not oxidizing	Remark:it does not contain substances classified as oxidizing

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SECTION 10. Stability and reactivity

10.1. Reactivity

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

STYRENE

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

May catch fire on contact with oxidizing mineral acids, strong oxidizing agents.

The vapours may also form explosive mixtures with the air.

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, di-tert-butyl peroxide, oxidising substances, oxygen.

ETHANOL

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

Keep away from heat, hot surfaces, sparks, open flames or other ignition sources. Not smoking. Avoid the formation of electrostatic charges. Stable under normal conditions.

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

STYRENE

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

ETHANOL

Avoid exposure to: sources of heat, naked flames.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

STYRENE

Incompatible materials: plastic materials.

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10.6. Hazardous decomposition products

Carbon oxides, Aromatic hydrocarbons.

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

SECTION 11. Toxicological information

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

STYRENE

It can be fatal if swallowed and if it enters the respiratory tract. Styrene possesses genotoxic potentials in vitro, which apparently reflect conversion to styrene oxide. There is no evidence, based on available animal and human data, that styrene has a significant mutagenic / clastogenic potential in vivo. Chronic inhalation caused hyperplasia and fibrosis and an increased incidence of late-onset lung tumors in mice, presumed to arise from a non-genotoxic mechanism. The incidence of tumors in rats did not suffer changes following exposure by chronic inhalation. There is no evidence that styrene has significant carcinogenic potential in humans. Reproductive toxicity studies conducted in animals exposed via drinking water or inhalation have shown that styrene is not selectively toxic to testes or ovaries, and no adverse effects on fertility have been observed. From animal studies it turns out that styrene is not teratogenic, nor is foetotoxicity detected at toxic treatment levels in sub-pregnancy. No selective effects have been reported during nervous system development. Some developmental delay was observed in unborn babies whose mothers were exposed to high dose levels (500 ppm). However, these findings were attributed to a weight loss of the unborn, rather than a selective effect on progeny.

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

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

STYRENE

The acute toxicity by inhalation at 1000 ppm affects the central nervous system with headache and dizziness, lack of coordination; irritation of the eye and respiratory tract mucous membranes occurs at 500 ppm. Chronic exposure causes depression of the central and peripheral nervous system with loss of memory, headache and drowsiness starting at 20 ppm; digestive disorders with nausea and loss of appetite; irritation of the respiratory tract with chronic bronchitis; dermatosis. Repeated exposure, at low doses of inhaled substance, causes irreversible changes to hearing and may cause changes in colour vision. No certain data is available on the reversibility of the visual impairment. Repeated skin exposure causes irritation. The substance degrades 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, products highly irritating for the human eye may ensue.

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)

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STYRENE

LD50 (Dermal):
LD50 (Oral):
LC50 (Inhalation vapours):

> 2000 mg/kg Rat, m/f
5000 mg/kg Rat
11,8 mg/l/4h Rat

ETHANOL

LD50 (Dermal):
LD50 (Oral):
LC50 (Inhalation vapours):

20 mg/kg Rabbit
> 21 g/kg Rat
120 mg/l/4h Pimephales promelas

N, N-BIS- (2-HYDROXYPROPYL) -P-TOLUIDINE

LD50 (Dermal):
LD50 (Oral):

> 2000 mg/kg guinea pig
25 mg/kg rat

PROPAN-2-OL

LD50 (Dermal):
LD50 (Oral):
LC50 (Inhalation vapours):

12800 mg/kg Rat
4710 mg/kg Rat
72,6 mg/l/4h Rat

MALEIC ANHYDRIDE

LD50 (Dermal):
LD50 (Oral):

610 mg/kg Rat
400 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

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

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STOT - SINGLE EXPOSURE

May cause respiratory irritation

STOT - REPEATED EXPOSURE

Causes damage to organs

STYRENE

specific target organ toxicity (STOT) - repeated exposure:

Test: LOAEL (C) - Route: Oral - Species: Rat = 2000 mg / kg - Notes: bw / day

Test: NOAEL (C) - Route: Oral - Species: Rat = 1000 mg / kg - Notes: bw / day

Test: LOAEL (C) - Route: Inhalation - Species: Rat = 0.21 mg / l

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: > 20,5 mm²/s

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 the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

STYRENE

LC50 - for Fish	4,02 mg/l/96h Pimephales promelas
EC50 - for Crustacea	4,7 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	4,9 mg/l/72h Selenastrum capricornutum
EC10 for Algae / Aquatic Plants	0,28 mg/l/72h Selenastrum capricornutum
Chronic NOEC for Crustacea	1,01 mg/l Daphnia magna

N, N-BIS- (2-HYDROXYPROPYL) -P-TOLUIDINE

LC50 - for Fish	17 mg/l/96h
EC50 - for Crustacea	28,8 mg/l/48h
EC50 - for Algae / Aquatic Plants	245 mg/l/72h freshwater algae
Chronic NOEC for Algae / Aquatic Plants	57,8 mg/l freshwater algae

ETHANOL

LC50 - for Fish	14200 mg/l/96h freshwater fish
EC50 - for Crustacea	5012 mg/l/48h freshwater invertebrates
EC50 - for Algae / Aquatic Plants	275 mg/l/72h freshwater algae
Chronic NOEC for Crustacea	9,6 mg/l freshwater invertebrates
Chronic NOEC for Algae / Aquatic Plants	11,5 mg/l freshwater algae

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PROPAN-2-OL LC50 - for Fish 9640 mg/l/96h Pimephales promelas EC50 - for Crustacea > 1000 mg/l/48h Daphnia magna EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h Desmodesmus subcapitatus			
12.2. Persistence and degradability			
STYRENE Solubility in water 320 mg/l Rapidly degradable			
MALEIC ANHYDRIDE Solubility in water > 10000 mg/l Entirely degradable			
N, N-BIS- (2-HYDROXYPROPYL) -P-TOLUIDINE Solubility in water 7 g/l Entirely degradable			
ETHANOL Solubility in water 1000 - 10000 mg/l Rapidly degradable			
PROPAN-2-OL Rapidly degradable			
12.3. Bioaccumulative potential			
STYRENE Partition coefficient: n-octanol/water 2,96 BCF 74			
MALEIC ANHYDRIDE Partition coefficient: n-octanol/water -2,78			
N, N-BIS- (2-HYDROXYPROPYL) -P-TOLUIDINE Partition coefficient: n-octanol/water 2,1			
ETHANOL Partition coefficient: n-octanol/water -0,35			
PROPAN-2-OL Partition coefficient: n-octanol/water 0,05			

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12.4. Mobility in soil

Do not mix with waste water, rain water, water surfaces. It floats on water, evaporates from liquid surfaces and soils but a significant proportion can penetrate and pollute groundwater.

STYRENE
Partition coefficient: soil/water 2,55

N, N-BIS- (2-HYDROXYPROPYL) -P-TOLUIDINE
Partition coefficient: soil/water 1,78

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

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

The product, if packaged in packages of less than 450 litres, is not subject to ADR regulations as stated in 2.2.3.1.5.

The product, if packaged in packages of less than 450 litres, is not subject to obligations relating to marking, labelling and package testing in accordance with 2.3.2.5 of the IMDG CODE.

14.2. UN proper shipping name

ADR / RID: POLYESTER RESIN KIT

IMDG: POLYESTER RESIN KIT

IATA: POLYESTER RESIN KIT

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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

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: --	Limited Quantities: 5 L	Tunnel restriction code: (E)
	Special provision: -		
IMDG:	EMS: F-E, S-D	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 10 Kg	Packaging instructions: 370
	Passengers:	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

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Product

Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

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 not been performed for the preparation/for the substances indicated in section 3.

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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STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
Asp. Tox. 1	Aspiration hazard, category 1
Skin Corr. 1B	Skin corrosion, category 1B
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. 1A	Skin sensitization, category 1A
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H300	Fatal if swallowed.
H302	Harmful 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.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH210	Safety data sheet available on request.

Use descriptor system:

LCS	PW	Widespread use by professional workers
PC	1	Adhesives, sealants

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%

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

GENERAL BIBLIOGRAPHY

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 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
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 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
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 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 08 / 09 / 10 / 11 / 12 / 15 / 16.