

**BELLINZONI S.R.L.**

Revision nr. 2

Dated 24/02/2023

Printed on 24/02/2023

Page n. 1/20

Replaced revision:1 (Printed on: 14/01/2021)

**EPOX PREMIUM TRASPARENTE VERTICALE
COMPONENTE A**

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: 019METVPRA - 019METVPRA001
Product name: EPOX PREMIUM TRASPARENTE VERTICALE COMPONENTE A
UFI: AGA0-Q0CK-300H-CFEJ

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

Intended use: Vertical transparent epoxy mastic for marble and stone.

Identified Uses	Industrial	Professional	Consumer
Epoxy mastic	-	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)
Italia
Tel. +39 0321 770558

e-mail address of the competent person

responsible for the Safety Data Sheet
Supplier:

laboratorio@bellinzoni.com
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

**EPOX PREMIUM TRASPARENTE VERTICALE
COMPONENTE A****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:

Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:



Signal words: Warning

Hazard statements:

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Precautionary statements:

P260	Do not breathe dust / fume / gas / mist / vapours / spray.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection / face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of the product / container in accordance with local / regional / national / international regulations.

Contains: 2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE
1,6-BIS(2,3-EPOXYPROPOXY) HEXANE

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%.

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**EPOX PREMIUM TRASPARENTE VERTICALE
COMPONENTE A****SECTION 3. Composition/information on ingredients****3.1. Substances**

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BIS OXIRANE		
INDEX 603-073-00-2	$85 \leq x < 90$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC 216-823-5		Skin Irrit. 2 H315: $\geq 5\%$, Eye Irrit. 2 H319: $\geq 5\%$
CAS 1675-54-3		
REACH Reg. 01-2119456619-26		
1,6-BIS(2,3-EPOXYPROPOXY)HEXANE		
INDEX -	$8 \leq x < 9$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 3 H412
EC 618-939-5		
CAS 933999-84-9		
REACH Reg. 01-2119463471-41		
(3-(2,3-EPOXYPROPOXY)PROPYL)TRIMETHOXSILANE		
INDEX -	$2 \leq x < 3$	Eye Dam. 1 H318, Aquatic Chronic 3 H412
EC 219-784-2		
CAS 2530-83-8		
REACH Reg. 01-2119513212-58		
ETHANEDIOL		
INDEX 603-027-00-1	$0,25 \leq x < 0,4$	Acute Tox. 4 H302, STOT RE 2 H373
EC 203-473-3		STA Oral: 500 mg/kg
CAS 107-21-1		
REACH Reg. 01-2119456816-28		
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT		
INDEX 649-422-00-2	$0,1 \leq x < 0,25$	Asp. Tox. 1 H304, EUH066
EC 265-149-8		
CAS 64742-47-8		
REACH Reg. 01-2119485032-45		

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

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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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

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

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

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)
CYP	Κύπρος	Οι πεπτά Αζθάλειαρ και Υγείαρ ζηνην Δπραζία (Φημικοί Παπάγονηρ) (Τποποποιητικοί) Κανονιζμοί ηος 2019. Οι περί Ασφάλειας και Υγείας στην Εργασία (Καρκινογόνοι και Μεταλλαξιογόνοι Παράγοντες) (Τροποποιητικοί) Κανονισμοί του 2020
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 töötervishoiu ja tööohutuse nõuded ning töökeskonna keemiliste ohtegurite 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 HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ``σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία``»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelmére
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu,

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ITA	Italia	graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
IRL	Éire	Decreto Legislativo 9 Aprile 2008, n.81
LUX	Luxembourg	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)
LTU	Lietuva	Règlement grand-ducal du 24 janvier 2020 modifiant le règlement grand-ducal du 14 novembre 2016 concernant la protection des salariés contre les risques liés à l'exposition à des agents cancérogènes ou mutagènes au travail
LVA	Latvija	Jsakymas dėl lietuvis higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo
MLT	Malta	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. §)
NOR	Norge	PROTECTION OF THE HEALTH AND SAFETY OF WORKERS FROM THE RISKS RELATED TO CHEMICAL AGENTS AT WORK REGULATIONS (S.L.424.24). PROTECTION OF WORKERS FROM THE RISKS RELATED TO EXPOSURE TO CARCINOGENS OR MUTAGENS AT WORK REGULATIONS (S.L.424.22)
NLD	Nederland	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
PRT	Portugal	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
POL	Polska	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
ROU	România	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
SWE	Sverige	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SVK	Slovensko	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVN	Slovenija	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 karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
TUR	Türkiye	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)
GBR	United Kingdom	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
EU	OEL EU	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	TLV-ACGIH	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

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,0006	mg/l			
Normal value in marine water				0,00006	mg/l			
Normal value for fresh water sediment				0,341	mg/kg/d			
Normal value for marine water sediment				0,0341	mg/kg/d			
Normal value for marine water, intermittent release				0,0018	mg/l			
Normal value for fresh water, intermittent release				0,00018	mg/l			
Normal value of STP microorganisms				10	mg/l			
Normal value for the food chain (secondary poisoning)				11	mg/kg			
Normal value for the terrestrial compartment				0,0647	mg/kg/d			
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				0,500 mg/kg bw/d				

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Inhalation			0,870 mg/m3				4,93 mg/m3		
Skin			0,0893 mg/kg bw/d				0,750 mg/kg bw/d		
1,6-BIS(2,3-EPOXYPROPOXY) HEXANE									
Predicted no-effect concentration - PNEC									
Normal value in fresh water			0,0115				mg/l		
Normal value in marine water			0,00115				mg/l		
Normal value for fresh water sediment			0,283				mg/kg dw		
Normal value for marine water sediment			0,0283				mg/kg dw		
Normal value for water, intermittent release			0,115				mg/l		
Normal value of STP microorganisms			1				mg/l		
Normal value for the terrestrial compartment			0,223				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		1,5 mg/kg bw/d		1,5 mg/kg bw/d					
Inhalation			5,29 mg/m3	5,29 mg/m3	0,270 mg/m3	10,57 mg/m3	0,440 mg/m3	10,57 mg/m3	
Skin	0,0136 mg/cm2	1,7 mg/kg bw/d	0,0136 mg/cm2	3 mg/kg bw/d	0,0226 mg/cm2		0,0226 mg/cm2	6 mg/kg bw/d	
(3-(2,3-EPOXYPROPOXY)PROPYL)TRIMETHOXYSILANE									
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH		5			10				
Predicted no-effect concentration - PNEC									
Normal value in fresh water			0,45				mg/l		
Normal value in marine water			0,045				mg/l		
Normal value for fresh water sediment			1,6				mg/kg dw		
Normal value for marine water sediment			0,16				mg/kg dw		
Normal value for water, intermittent release			0,45				mg/l		
Normal value of STP microorganisms			8,2				mg/l		
Normal value for the terrestrial compartment			0,063				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				5 mg/kg bw/d					
Inhalation			26400 mg/m3	17 mg/m3	VND	147 mg/m3	VND	147 mg/m3	
Skin				5 mg/kg bw/d	VND	21 mg/kg	VND	21 mg/kg	

ETHANEDIOL							
Threshold Limit Value							
Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
MAK	AUS	26	10	52	20	SKIN	STEL:5(Mow), Häufigkeit/Sch:8x
VLEP	BEL	52	20	104 (C)	40 (C)	SKIN	
TLV	BGR	52	20	104	40	SKIN	
MAK	CHE	26	10	52	20	SKIN	
VME/VLE	CHE	26	10	52	20	SKIN	
TLV	CYP	52	20	104	40	SKIN	
TLV	CZE	50	19,4	100	38,8	SKIN	
AGW	DEU	26	10	52	20	SKIN	
MAK	DEU	26	10	52	20	SKIN	
TLV	DNK	26	10			SKIN	E
VLA	ESP	52	20	104	40	SKIN	
TLV	EST	52	20	104	40	SKIN	
VLEP	FRA	52	20	104	40	SKIN	
HTP	FIN	50	20	100	40	SKIN	
TLV	GRC	125	50	125	50		
AK	HUN	52		104		SKIN	
GVI/KGVI	HRV	52	20	104	40	SKIN	
VLEP	ITA	52	20	104	40	SKIN	
OELV	IRL	10				SKIN	Particulates
VL	LUX	52	20	104	40	SKIN	
RD	LTU	25	10	50	20	SKIN	
RV	LVA	52	20	104	40	SKIN	
TLV	MLT	52	20	104	40	SKIN	
TLV	NOR	52	20			SKIN	
TGG	NLD	52		104		SKIN	
VLE	PRT	52	20	104	40	SKIN	
NDS/NDSCh	POL	15		50		SKIN	
TLV	ROU	52	20	104	40	SKIN	
NGV/KGV	SWE	25	10	104	40	SKIN	
NPEL	SVK	52	20	104	40	SKIN	
MV	SVN	52	20	104	40	SKIN	
ESD	TUR	52	20	104	40	SKIN	
WEL	GBR	52	20	104	40	SKIN	
OEL	EU	52	20	104	40	SKIN	
TLV-ACGIH			25		50		
TLV-ACGIH				10		INHAL	

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Predicted no-effect concentration - PNEC		
Normal value in fresh water	10	mg/l
Normal value in marine water	1	mg/l
Normal value for fresh water sediment	37	mg/kg
Normal value for marine water sediment	3,7	mg/kg
Normal value for water, intermittent release	10	mg/l
Normal value of STP microorganisms	199,5	mg/l
Normal value for the terrestrial compartment	1,53	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
Inhalation			7 mg/m3				35 mg/m3	
Skin				53 mg/kg bw/d				106 mg/kg bw/d

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH				200		SKIN A3

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ;
MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Nitrile gloves according to EN374 class 3 (B-F-I) permeation time > 60 minutes.

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.

RESPIRATORY PROTECTION

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

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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	viscous liquid	
Colour	transparent	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	233 °C	Substance:(3-(2,3-EPOXYPROPOXY)PROPYL)TRIMETHOXY SILANE
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	185 °C	
Auto-ignition temperature	220 °C	Substance:DISTILLATES (PETROLEUM), HYDROTREATED LIGHT
Decomposition temperature	not available	
pH	not applicable	
Kinematic viscosity	> 20,5 mm ² /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	10 hPa	Substance:DISTILLATES (PETROLEUM), HYDROTREATED LIGHT
Density and/or relative density	1,15 g/cm ³	
Relative vapour density	not available	
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)	99,02 %	
VOC (Directive 2010/75/EU)	0,99 % - 11,39 g/litre	
VOC (volatile carbon)	0	
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.

ETHANEDIOL

In the air absorbs moisture. Decomposes at temperatures above 200°C/392°F.

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 strong oxidizing agents

ETHANEDIOL

Risk of explosion on contact with: perchloric acid. May react dangerously with: chlorosulphuric acid, sodium hydroxide, sulphuric acid, phosphorus pentasulphide, chromium (III) oxide, chromyl chloride, potassium perchlorate, potassium dichromate, sodium peroxide, aluminium. Forms explosive mixtures with: air.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

ETHANEDIOL

Avoid exposure to: sources of heat, naked flames.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

ETHANEDIOL

May develop: hydroxyacetaldehyde, glyoxal, acetaldehyde, methane, carbon monoxide, hydrogen.

SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

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Information on likely routes of exposure

ETHANEDIOL

WORKERS: inhalation; contact with the skin.

POPULATION: inhalation of ambient air; contact with the skin of products containing the substance.

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

ETHANEDIOL

Ingestion initially stimulates the central nervous system; later replaced by a phase of depression. There may be kidney damage, with anuria and uremia. Over-exposure symptoms are: vomiting, drowsiness, difficulty in breathing, convulsions. The lethal dose for humans is approx. 1.4 ml/kg.

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE

LD50 (Dermal):	23000 mg/kg rat
LD50 (Oral):	15000 mg/kg rat

1,6-BIS(2,3-EPOXYPROPOXY) HEXANE

LD50 (Oral):	3010 mg/kg rat (OECD 401)
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(3-(2,3-EPOXYPROPOXY)PROPYL)TRIMETHOXY SILANE

LD50 (Dermal):	4250 mg/kg Rabbit - New Zeland white
LD50 (Oral):	8025 mg/kg Rat - Wistar
LC50 (Inhalation vapours):	5,3 mg/l Rat - Fischer 344

ETHANEDIOL

LD50 (Dermal):	3500 mg/kg mouse
LD50 (Oral):	7712 mg/kg Rat
LC50 (Inhalation vapours):	2500 mg/l/6h rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

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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

ETHANEDIOL

Available studies have shown no carcinogenic potential. In a carcinogenicity study lasting two years, carried out by the US National Toxicology Program (NTP), in which ethylene glycol was administered in the feed, "no evidence of carcinogenic activity" in male and female B6C3F1 mice was observed (NTP, 1993).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

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

SECTION 12. Ecological information

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

12.1. Toxicity

ETHANEDIOL

LC50 - for Fish	72,86 mg/l/96h freshwater fish
EC50 - for Crustacea	100 mg/l/48h
Chronic NOEC for Fish	15,38 mg/l freshwater fish
Chronic NOEC for Crustacea	8,59 g/l freshwater invertebrates
Chronic NOEC for Algae / Aquatic Plants	100 mg/l freshwater algae



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COMPONENTE A**

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRAN E

LC50 - for Fish	2 mg/l/96h
EC50 - for Crustacea	1,8 mg/l/48h daphnia magna
Chronic NOEC for Crustacea	0,3 mg/l daphnia magna

(3-(2,3-EPOXYPROPOXY)PROPYL)TRIMETHOXY SILANE

LC50 - for Fish	55 mg/l/96h Cyprinus carpio
EC50 - for Crustacea	324 mg/l/48h Simocephalus vetulus
EC50 - for Algae / Aquatic Plants	288 mg/l/72h freshwater algae
Chronic NOEC for Crustacea	82 mg/l freshwater invertebrates
Chronic NOEC for Algae / Aquatic Plants	107 mg/l freshwater algae

1,6-BIS(2,3-EPOXYPROPOXY) HEXANE

LC50 - for Fish	30 mg/l/96h fish
EC50 - for Crustacea	47 mg/l/48h daphnia
EC50 - for Algae / Aquatic Plants	88,3 mg/l/72h alghe

12.2. Persistence and degradability

ETHANEDIOL

Solubility in water	1000 - 10000 mg/l
Rapidly degradable	

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRAN E

Solubility in water	6,9 mg/l 20°C
NOT rapidly degradable	

(3-(2,3-EPOXYPROPOXY)PROPYL)TRIMETHOXY SILANE

Solubility in water	1000 mg/l
NOT rapidly degradable	

1,6-BIS(2,3-EPOXYPROPOXY) HEXANE

Solubility in water	11,9 g/l
Entirely degradable	

It is assumed that the product is not rapidly biodegradable (from given substances contained).



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COMPONENTE A**

12.3. Bioaccumulative potential

ETHANEDIOL

Partition coefficient: n-octanol/water -1,36

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE

Partition coefficient: n-octanol/water 3,242 Log Kow

BCF 31 l/Kg w/w

(3-(2,3-EPOXYPROPOXY)PROPYL)TRIMETHOXYISILANE

Partition coefficient: n-octanol/water -2,6

1,6-BIS(2,3-EPOXYPROPOXY) HEXANE

Partition coefficient: n-octanol/water 0,822

12.4. Mobility in soil

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE

Partition coefficient: soil/water 2,648

(3-(2,3-EPOXYPROPOXY)PROPYL)TRIMETHOXYISILANE

Partition coefficient: soil/water -0,3 20°C

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.

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

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**EPOX PREMIUM TRASPARENTE VERTICALE
COMPONENTE A****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: 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity $\leq$ 5Kg or 5L, is not submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity $\leq$ 5Kg or 5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity $\leq$ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE)

14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9

**14.4. Packing group**

ADR / RID, IMDG, IATA: III

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14.5. Environmental hazards

ADR / RID: Environmentally
Hazardous

IMDG: Marine Pollutant

IATA: Environmentally
Hazardous



14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 L	Tunnel restriction code: (-)
	Special provision: 274, 335, 375, 601		
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Passengers:	Maximum quantity: 450 L	Packaging instructions: 964
	Special provision:	A97, A158, A197, A215	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: E2

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

Product

Point 3

Contained substance

Point 75

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

not applicable

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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:

Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.



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H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.
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%
- 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

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)

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- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.