



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: RE2018EXP
Product name: MULTI-SURFACE DECOGRIP - MATT NEUTRAL BASE COAT

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

Intended use: Waterborne enamel

1.3. Details of the supplier of the safety data sheet

Name: RENNER ITALIA S.P.A.
Full address: Via Ronchi Inferiore, 34
District and Country: 40061 Minerbio (BO) Italia
Tel.: +39 051-6618211
Fax: +39 051-6606312

e-mail address of the competent person responsible for the Safety Data Sheet: sds@renneritalia.com

1.4. Emergency telephone number

For urgent inquiries refer to:

RENNER ITALIA S.p.A. - Tel. +39 051-6618211 (dal lunedì al venerdì dalle 8.30 - 13.00 e dalle 14.00 - 17.30)
ITALIA
CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA - Tel. +39 06-68593726
Az. Osp. Univ. Foggia - Tel. +39 800183459
Az. Osp. "A. Cardarelli" - Tel. +39 081-5453333
CAV Policlinico "Umberto I" - Tel. +39 06-49978000
CAV Policlinico "A. Gemelli" - Tel. +39 06-3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica - Tel. +39 055-7947819
CAV IRCCS Fondazione Salvatore Maugeri Clinica del lavoro e della riabilitazione
Tel. +39 0382-24444
Osp. Niguarda Ca' Granda - Tel. +39 02-66101029
Azienda Ospedaliera Papa Giovanni XXIII - Tel. +39 800883300
Azienda Ospedaliera Integrata Verona - Tel. +39 800011858
BELGIUM
Centre Antipoisons c/o Hôpital Militaire Reine - Tel. +32 022649636
BULGARIA - България
Национален център по токсикология, МБАЛСМ "Пирогов"
телефон: +359 2 9154 233
ČESKÁ REPUBLIKA
Toxikologické informační středisko Praha: (+420) 224 919 293
CROATIA
Služba za izvanredna stanja (112)
Centar za kontrolu otrovanja (01/2348-342)
GREECE
Ελληνικό Κέντρο Δηλητηριάσεων: 0030-2107793777
HUNGARY
Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ)
1096 Budapest, Nagyvárad tér 2.
Telefon: +36 1 476 6464 (8-16 óráig), +36 80 201 199 (éjjel-nappal hívható) magyar nyelven
LATVIA
Valsts ugunsdzēsības un glābšanas dienests: (+371) 112
Saindešanas un zalu informācijas centrs: (+371) 67042473 (visu diennakti)
LITHUANIA
Apsinuodijimų kontrolės ir Informacijos biuras visą parą tel. (8 5) 236 2052
Bendras pagalbos telefonas: 112



RENNER ITALIA S.P.A.

RE2018EXP - MULTI-SURFACE DECOGRIP - MATT NEUTRAL BASE COAT

Revision nr.3
Dated 19/07/2023
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EN

NORWAY

Emergency number: 113

POLSKA

Numer telefonu alarmowego: +48 22 615 27 51

PORTUGAL

Centro de Informação Anti-Venenos: 800 250 250

SPAIN

Información telefónica y emergencias toxicológicas (INTCF) – tel. 91 562 04 20

AUSTRALIA & NEW ZEALAND

Poisons information Centre, Australia wide: Phone 13 11 26 - H24 Service

Police or Fire Brigade: Phone 000 Or New Zealand: 0800 764 766

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:

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: --

Hazard statements:

H412

Harmful to aquatic life with long lasting effects.

EUH208

Contains: 2-METHYL-4-ISOTHIAZOLIN-3-ONE

Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one
methyl- 2H- isothiazol- 3-one (3:1)

1,2-Benzisothiazol-3(2H)-one

May produce an allergic reaction.

Precautionary statements:

P501

Dispose of contents / container in accordance with regulation in force.

P273

Avoid release to the environment.

VOC (Directive 2004/42/EC) :

Interior / exterior trim varnishes and woodstains, including opaque woodstains.

VOC given in g/litre of product in a ready-to-use condition :

30,39

Limit value:

130,00

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



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

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
ETHYLENE GLYCOL		
INDEX 603-027-00-1	0,05 ≤ x < 0,1	Acute Tox. 4 H302, STOT RE 2 H373
EC 203-473-3		ATE Oral: 500 mg/kg
CAS 107-21-1		
REACH Reg. 01-2119456816-28-xxxx		
1,2-Benzisothiazol-3(2H)-one		
INDEX 613-088-00-6	0 ≤ x < 0,05	Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC 220-120-9		Skin Sens. 1 H317: ≥ 0,05%
CAS 2634-33-5		LD50 Oral: 532 mg/l/4h, LC50 Inhalation mists/powders: 0,2 mg/l/4h
REACH Reg. 01-2120761540-60		
AMMONIA		
INDEX 007-001-01-2	0 ≤ x < 0,05	Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411, Classification note according to Annex VI to the CLP Regulation: B
EC 215-647-6		STOT SE 3 H335: ≥ 5%
CAS 1336-21-6		
REACH Reg. 01-2119488876-14		
OCTAMETHYLCYCLOTETRA-SILOXANE		
INDEX 014-018-00-1	0 ≤ x < 0,025	Flam. Liq. 3 H226, Repr. 2 H361f, Aquatic Chronic 1 H410 M=10
EC 209-136-7		
CAS 556-67-2		
REACH Reg. 01-2119529238-36-xxxx		
METHYL METHACRYLATE		
INDEX 607-035-00-6	0 ≤ x < 0,05	Flam. Liq. 2 H225, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: D
EC 201-297-1		STOT SE 3 H335: ≥ 10%
CAS 80-62-6		
REACH Reg. 01-2119542498-28-xxxx		
METHANOL		
INDEX 603-001-00-X	0 ≤ x < 0,01	Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370
EC 200-659-6		STOT SE 2 H371: ≥ 3%
CAS 67-56-1		ATE Oral: 100 mg/kg, ATE Dermal: 300 mg/kg, ATE Inhalation vapours: 3 mg/l
REACH Reg. 01-2119433307-44		
Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl- 2H- isothiazol- 3-one (3:1)		
INDEX 613-167-00-5	0 ≤ x < 0,0015	Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071
EC 911-418-6		Skin Corr. 1B H314: ≥ 0,5%, Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1A H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06%
CAS 55965-84-9		LD50 Oral: >53 mg/kg, LD50 Dermal: >87 mg/kg, LC50 Inhalation mists/powders: 0,31 mg/l/4h
REACH Reg. 01-2120764691-48-xxxx		
2-METHYL-4-ISOTHIAZOLIN-3-ONE		
INDEX 613-167-00-5	0 ≤ x < 0,0015	Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1, EUH071
EC 220-239-6		Skin Sens. 1A H317: ≥ 0,0015%
CAS 2682-20-4		LD50 Oral: 285 mg/l/4h, LD50 Dermal: 242 mg/l/4h, LC50 Inhalation mists/powders: 0,11 mg/l/4h
REACH Reg. 01-2120764690-50		

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



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

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.

METHYL METHACRYLATE

Heat may cause the product to polymerise, which could lead to explosion.

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.

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.

**SECTION 6. Accidental release measures** ... / >>**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:

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.)
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
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 ohutegurite piirnõrmi [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 μεταλλαξιγόνους 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 védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LTU	Lietuva	Jsakymas dėl lietuvis higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo
LVA	Latvija	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	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006



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EN

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

SVK	Slovensko	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
SVN	Slovenija	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)
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2022

AMMONIA

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
VLEP	ITA	14	20	36
OEL	EU	14	20	36

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0011	mg/l
Normal value in marine water	0,0011	mg/l
Normal value for water, intermittent release	0,0068	mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Effects on workers		Acute	Chronic	Chronic	Chronic
	Acute	Acute	Chronic	Chronic				
Oral	local	systemic	local	systemic	local	systemic	local	systemic
	VND	6,8	VND	6,8				
		mg/kg/d		mg/kg bw/d				
Inhalation	7,2	23,8	2,8	23,8	36	47,6	14	47,6
	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin		6,8	68	68	VND	6,8	VND	6,8
		mg/kg bw/d	mg/kg/d	mg/kg bw/d		mg/kg		mg/kg
						bw/d		bw/d

KAOLIN

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
VLA	ESP	2		RESP
HTP	FIN	2		RESP
GVI/KGVI	HRV	2		RESP
TGG	NLD	10		
NDS/NDSch	POL	10		INHAL
WEL	GBR	2		RESP
TLV-ACGIH		2		RESP



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

METHYL METHACRYLATE

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
TLV	BGR		50		100	
TLV	CZE	50	12	150	36	
AGW	DEU	210	50	420 (C)	100 (C)	
MAK	DEU	210	50	420	100	
VLA	ESP		50		100	
TLV	EST		50		100	
VLEP	FRA	205	50	410	100	
HTP	FIN	42	10	210	50	
TLV	GRC		50		100	
AK	HUN	208		415		SKIN
GVI/KGVI	HRV	50		100		SKIN
VLEP	ITA		50		100	
RD	LTU	208	50	416	100	
RV	LVA	10				
TLV	NOR	100	25	400	100	
TGG	NLD	205		410		
VLE	PRT		50		100	
NDS/NDSch	POL	100		300		
TLV	ROU	205	50	410	100	
NPEL	SVK		50		100	
MV	SVN	210	50	420	100	
ESD	TUR		50		100	
WEL	GBR	208	50	416	100	
OEL	EU		50		100	
TLV-ACGIH		205	50	410	100	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,94	mg/l
Normal value in marine water	0,094	mg/l
Normal value for fresh water sediment	10,2	mg/kg
Normal value for marine water sediment	0,102	mg/kg
Normal value for water, intermittent release	0,94	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	1,47	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			104 mg/m3	74,3 mg/m3			208 mg/m3	208 mg/m3
Skin	1,5 mg/kg bw/d		1,5 mg/cm2	8,2 mg/kg bw/d	1,5 mg/cm2		1,5 mg/kg bw/d	13,67 mg/kg bw/d



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

METHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	260	200			SKIN
TLV	CZE	250	187,75	1000	751	SKIN
AGW	DEU	270	200	1080	800	SKIN
MAK	DEU	130	100	260	200	SKIN
VLA	ESP	266	200			SKIN
TLV	EST	250	200	350	250	SKIN
VLEP	FRA	260	200	1300	1000	SKIN 11
HTP	FIN	270	200	330	250	SKIN
TLV	GRC	260	200	325	250	
AK	HUN	260				SKIN
GVI/KGVI	HRV	260	200			SKIN
VLEP	ITA	260	200			SKIN
RD	LTU	260	200			SKIN
RV	LVA	260	200			SKIN
TLV	NOR	130	100			SKIN
TGG	NLD	133				SKIN
VLE	PRT	260	200			SKIN
NDS/NDSch	POL	100		300		SKIN
TLV	ROU	260	200			SKIN
NPEL	SVK	260	200			SKIN
MV	SVN	260	200	1040	800	SKIN
ESD	TUR	260	200			SKIN
WEL	GBR	266	200	333	250	SKIN
OEL	EU	260	200			
TLV-ACGIH		262	200	328	250	SKIN

Predicted no-effect concentration - PNEC

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

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		4 mg/kg/d		4 mg/kg/d				
Inhalation	26 mg/m3	26 mg/m3	26 mg/m3	26 mg/m3	130 mg/m3	130 mg/m3	130 mg/m3	130 mg/m3
Skin		4 mg/kg/d		4 mg/kg/d		20 mg/kg/d		20 mg/kg/d



RENNER ITALIA S.P.A.

RE2018EXP - MULTI-SURFACE DECOGRIP - MATT NEUTRAL BASE COAT

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EN

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

ETHYLENE GLYCOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	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
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
RD	LTU	25	10	50	20	SKIN
RV	LVA	52	20	104	40	SKIN
TLV	NOR	52	20			SKIN
TGG	NLD	52		104		SKIN damp
VLE	PRT	52	20	104	40	SKIN
NDS/NDSch	POL	15		50		SKIN
TLV	ROU	52	20	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

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 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		Chronic local	Chronic systemic	Effects on workers		Chronic local	Chronic systemic
	Acute local	Acute systemic			Acute local	Acute systemic		
Inhalation			7 mg/m3				35 mg/m3	
Skin				53 mg/kg/d				106 mg/kg/d

1,2-Benzisothiazol-3(2H)-one

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00403	mg/l
Normal value in marine water	0,00040	mg/l
	3	
Normal value for fresh water sediment	0,0499	mg/kg/d
Normal value for marine water sediment	0,00499	mg/kg/d
Normal value for water, intermittent release	0,00011	mg/l
Normal value of STP microorganisms	1,03	mg/l
Normal value for the terrestrial compartment	3	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers		Chronic local	Chronic systemic
	Acute local	Acute systemic			Acute local	Acute systemic		
Inhalation				1,2 mg/m3				6,81 mg/m3
Skin				0,345 mg/kg bw/d				0,966 mg/kg bw/d



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

Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one
methyl- 2H- isothiazol- 3-one (3:1)

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
AGW	DEU	0,2				
MV	SVN	0,05				

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00339	mg/l
Normal value in marine water	0,00339	mg/l
Normal value for fresh water sediment	0,027	mg/kg
Normal value for marine water sediment	0,027	mg/kg
Normal value for water, intermittent release	0,00339	mg/l
Normal value of STP microorganisms	0,23	mg/l
Normal value for the terrestrial compartment	0,01	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		0,11 mg/kg bw/d		0,09 mg/kg bw/d				
Inhalation	0,02 mg/m3		0,04 mg/m3		0,04 mg/m3		0,02 mg/m3	

OCTAMETHYLCYCLOTETRA-SILOXANE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0015	mg/l
Normal value in marine water	0,00015	mg/l
Normal value for fresh water sediment	3	mg/kg
Normal value for marine water sediment	0,3	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	41	mg/kg
Normal value for the terrestrial compartment	0,54	mg/kg
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			3,7 mg/kg bw/d	3,7 mg/kg bw/d				
Inhalation			13 mg/m3	13 mg/m3			73 mg/m3	73 mg/m3

2-METHYL-4-ISOTHIAZOLIN-3-ONE

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
MAK	DEU	0,2				INHAL
MV	SVN	0,05				

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0034	mg/l
Normal value in marine water	0,0034	mg/l
Normal value for water, intermittent release	0,0034	mg/l
Normal value of STP microorganisms	0,23	mg/l
Normal value for the terrestrial compartment	0,047	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	0,053	0,053 mg/kg bw/d	0,027	0,027 mg/kg bw/d				
Inhalation	0,043 mg/m3		0,021 mg/m3		0,043 mg/m3		0,021 mg/m3	

**SECTION 8. Exposure controls/personal protection** ... / >>**DIETHYLENE GLYCOL MONOETHYL ETHER****Threshold Limit Value**

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
AGW	DEU	50	6			INHAL
TLV	EST	50,1	10			

Predicted no-effect concentration - PNEC

Normal value in fresh water	1,98	mg/l
Normal value in marine water	0,198	mg/l
Normal value for fresh water sediment	7,32	mg/kg
Normal value for marine water sediment	0,732	mg/kg
Normal value of STP microorganisms	500	mg/l
Normal value for the food chain (secondary poisoning)	444	mg/kg
Normal value for the terrestrial compartment	0,34	mg/kg/d

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				50 mg/kg bw/d				
Inhalation			18 mg/m3	37 mg/m3			30 mg/m3	61 mg/m3
Skin				25 mg/kg bw/d				83 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

Take the normal precautions for handling chemicals and apply an adequate standard of workplace hygiene.

Users must assess the risks in their workplace and adopt:

- Primary collective protective measures such as adequate natural ventilation and local extraction
- Personal protective equipment to manage the combination of residual risks

Personal protective equipment varies according to the possible exposure and hazardousness of the working conditions, so the final choice depends on the risk assessment.

HAND PROTECTION

Use category III chemical resistant gloves according to the EN 374 standard

Brief contact (splash protection) – non-exhaustive list

Suitable material: NITRILE RUBBER (NBR)

Glove thickness: greater than 0.4 mm

Breakthrough time: from 30 to 60 minutes

Breakthrough index: at least 2

The gloves must be replaced if there are signs of deterioration. In any case, users must assess the risks to determine the most suitable type of glove for the conditions of use.

SKIN PROTECTION

Wear work clothes and safety footwear that complies with EN ISO 20344

EYE PROTECTION

Wear safety glasses (UNI EN ISO 16321-1).

RESPIRATORY PROTECTION

Use a mask with EN140 and/or EN136 approval, with an ABEK type filter (EN 14387)

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

NOTE: Determination of the flash point may be NA (not applicable), the product being non flammable.

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	colourless	
Odour	almost odourless	
Melting point / freezing point	not available	
Initial boiling point	> 65 °C	
Flammability	not applicable	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	not applicable	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	8,0-9,0	
Kinematic viscosity	not available	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,1	
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)	38,76 %	
VOC (Directive 2004/42/EC) :	2,76 % - 30,39	g/litre
VOC (volatile carbon)	0,55 % - 6,03	g/litre
Explosive properties	not applicable	
Oxidising properties	not applicable	

SECTION 10. Stability and reactivity

10.1. Reactivity

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

AMMONIA

Corrodes: aluminium,iron,zinc,copper,copper alloys.

ETHYLENE GLYCOL

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

No hazardous reactions are foreseeable in normal conditions of use and storage.

AMMONIA

Risk of explosion on contact with: strong acids,iodine.May react dangerously with: strong bases.

METHYL METHACRYLATE

May polymerise on contact with: ammonia,organic peroxides,persulphates.Risk of explosion on contact with: dibenzoyl peroxide,diterbutyl peroxide,propionaldehyde.May react dangerously with: strong oxidising agents.Forms explosive mixtures with: air.

ETHYLENE GLYCOL

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



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

peroxide,aluminium.Forms explosive mixtures with: air.
DIETHYLENE GLYCOL MONOETHYL ETHER
DIETHYLENE GLYCOL MONOETHYL ETHER - it can form explosive mix with air in presence of high temperature (T> 94°C)

10.4. Conditions to avoid

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

METHYL METHACRYLATE

Avoid exposure to: heat,UV rays.Avoid contact with: oxidising substances,reducing substances,acids,bases.

ETHYLENE GLYCOL

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

AMMONIA

Incompatible with: silver,silver salts,lead,lead salts,zinc,zinc salts,hydrochloric acid,nitric acid,oleum,halogens,acrolein,nitromethane,acrylic acid.

10.6. Hazardous decomposition products

AMMONIA

May develop: nitric oxide.

METHYL METHACRYLATE

When heated to decomposition releases: harsh fumes,zinc alloys.

ETHYLENE GLYCOL

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

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

METHANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

ETHYLENE GLYCOL

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

METHANOL

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

ETHYLENE GLYCOL

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)

**SECTION 11. Toxicological information ... / >>**

AMMONIA	
LD50 (Oral):	350 mg/kg
KAOLIN	
LD50 (Dermal):	> 2000 mg/kg
LD50 (Oral):	> 2000 mg/kg
LC50 (Inhalation mists/powders):	> 5,07 mg/l/1h
METHYL METHACRYLATE	
LD50 (Dermal):	> 35000 mg/kg
LD50 (Oral):	8400 mg/kg
LC50 (Inhalation vapours):	29,8 mg/l/4h
METHANOL	
LD50 (Dermal):	17100 mg/kg
ATE (Dermal):	300 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral):	1187 mg/kg
LC50 (Inhalation vapours):	116 mg/l/4h
ETHYLENE GLYCOL	
LD50 (Dermal):	> 3500 mg/kg topo
LD50 (Oral):	7712 mg/kg ratto
1,2-Benzisothiazol-3(2H)-one	
LD50 (Dermal):	> 2000 mg/kg ratto
LD50 (Oral):	532 mg/kg ratto
LC50 (Inhalation mists/powders):	0,2 mg/l/4h
Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl- 2H- isothiazol- 3-one (3:1)	
LD50 (Dermal):	> 87 mg/kg
LD50 (Oral):	> 53 mg/kg ratto
LC50 (Inhalation mists/powders):	0,31 mg/l/4h
POLYETHYLENE WAX	
LD50 (Oral):	> 2000 mg/kg
1-(2-butoxy-1-methylethoxy)propan-2-ol	
LD50 (Dermal):	> 2000 mg/kg
LD50 (Oral):	3160 mg/kg
OCTAMETHYLCYCLOTETRA-SILOXANE	
LD50 (Dermal):	2375 mg/kg
LD50 (Oral):	4800 mg/kg
LC50 (Inhalation mists/powders):	36 mg/l/4h
2-METHYL-4-ISOTHIAZOLIN-3-ONE	
LD50 (Dermal):	242 mg/kg
LD50 (Oral):	285 mg/kg
LC50 (Inhalation mists/powders):	0,11 mg/l/4h
DIETHYLENE GLYCOL MONOETHYL ETHER	
LD50 (Dermal):	9143 mg/kg
LD50 (Oral):	6031 mg/kg
LC50 (Inhalation vapours):	5,5 mg/l/4h

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:



SECTION 11. Toxicological information ... / >>

2-METHYL-4-ISOTHIAZOLIN-3-ONE

Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one
methyl- 2H- isothiazol- 3-one (3:1)
1,2-Benzisothiazol-3(2H)-one

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

ETHYLENE GLYCOL

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

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

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class



SECTION 11. Toxicological information ... / >>

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 has negative effects on the aquatic environment.

12.1. Toxicity

AMMONIA

LC50 - for Fish	0,89 mg/l/96h <i>Oncorhynchus mykiss</i>
EC50 - for Crustacea	0,66 mg/l/48h <i>Daphnia pulex</i>
Chronic NOEC for Crustacea	0,79 mg/l 96 h

KAOLIN

LC50 - for Fish	> 100 mg/l/96h
EC50 - for Crustacea	> 1000 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h

METHYL METHACRYLATE

LC50 - for Fish	> 79 mg/l/96h <i>Oncorhynchus mykiss</i>
EC50 - for Crustacea	69 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	> 110 mg/l/72h <i>Pseudokirchneriella subcapitata</i>
Chronic NOEC for Fish	9,4 mg/l <i>Danio rerio</i>
Chronic NOEC for Crustacea	37 mg/l <i>Daphnia magna</i>

METHANOL

LC50 - for Fish	15400 mg/l/96h <i>Lepomis macrochirus</i>
EC50 - for Algae / Aquatic Plants	22000 mg/l/72h <i>Scenedesmus quadricauda</i>
Chronic NOEC for Crustacea	208 mg/l 21 d

ETHYLENE GLYCOL

EC50 - for Crustacea	> 100 mg/l/48h <i>Daphnia magna</i>
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1,2-Benzisothiazol-3(2H)-one

LC50 - for Fish	2,18 mg/l/96h <i>Onchorhynchus mykiss</i>
EC50 - for Crustacea	2,94 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	0,11 mg/l/72h
EC10 for Algae / Aquatic Plants	0,0403 mg/l/72h
Chronic NOEC for Fish	1,3 mg/l <i>Onchorhynchus mykiss</i>
Chronic NOEC for Crustacea	1,2 mg/l <i>Daphnia magna</i>
Chronic NOEC for Algae / Aquatic Plants	0,0403 mg/l

Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl- 2H- isothiazol- 3-one (3:1)

LC50 - for Fish	0,3 mg/l/96h <i>Danio rerio</i>
EC50 - for Crustacea	0,16 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	0,0379 mg/l/72h <i>Pseudokirchneriella subcapitata</i> - growth rate
Chronic NOEC for Fish	0,098 mg/l <i>Oncorhynchus mykiss</i> (28 d)
Chronic NOEC for Crustacea	0,004 mg/l <i>Daphnia magna</i> (21 d)
Chronic NOEC for Algae / Aquatic Plants	0,032 mg/l <i>Pseudokirchneriella subcapitata</i>

POLYETHYLENE WAX

LC50 - for Fish	> 100 mg/l/96h
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1-(2-butoxy-1-methylethoxy)propan-2-ol

LC50 - for Fish	841 mg/l/96h <i>Poecilia reticulata</i>
EC50 - for Crustacea	> 1000 mg/l/48h <i>Daphnia magna</i>

OCTAMETHYLCYCLOTETRA-SILOXANE

LC50 - for Fish	> 22 µg/l/96h <i>Leuciscus idus</i>
EC50 - for Crustacea	> 15 µg/l/48h <i>Daphnia magna</i>
Chronic NOEC for Fish	44 µg/l <i>Oncorhynchus mykiss</i> (93d)
Chronic NOEC for Crustacea	15 µg/l <i>Daphnia magna</i> (21d)



SECTION 12. Ecological information ... / >>

2-METHYL-4-ISOTHIAZOLIN-3-ONE

LC50 - for Fish	> 150 mg/l/96h Danio rerio
EC50 - for Crustacea	0,87 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,157 mg/l/72h Psudokirchneriella subcapitata
Chronic NOEC for Fish	493 mg/l Oncorhynchus mykiss
Chronic NOEC for Crustacea	0,044 mg/l Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	0,0104 mg/l Psudokirchneriella subcapitata

DIETHYLENE GLYCOL MONOETHYL ETHER

LC50 - for Fish	> 6000 mg/l/96h Lepomis macrochirus
EC50 - for Crustacea	> 1982 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	14861 mg/l/72h

12.2. Persistence and degradability

AMMONIA

Degradability: information not available

METHYL METHACRYLATE

Solubility in water	15300 mg/l
Rapidly degradable	

METHANOL

Solubility in water	1000 - 10000 mg/l
Rapidly degradable	

ETHYLENE GLYCOL

Solubility in water	1000 - 10000 mg/l
Rapidly degradable	

1,2-Benzisothiazol-3(2H)-one

Rapidly degradable

Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl- 2H- isothiazol- 3-one (3:1)

NOT rapidly degradable

1-(2-butoxy-1-methylethoxy)propan-2-ol

Rapidly degradable

OCTAMETHYLCYCLOTETRA-SILOXANE

NOT rapidly degradable	3,7%
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2-METHYL-4-ISOTHIAZOLIN-3-ONE

NOT rapidly degradable

DIETHYLENE GLYCOL MONOETHYL ETHER

Rapidly degradable	> 80%
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12.3. Bioaccumulative potential

METHYL METHACRYLATE

Partition coefficient: n-octanol/water	1,38
BCF	2,97

METHANOL

Partition coefficient: n-octanol/water	-0,77
BCF	0,2

ETHYLENE GLYCOL

Partition coefficient: n-octanol/water	-1,36
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1,2-Benzisothiazol-3(2H)-one

Partition coefficient: n-octanol/water	0,99
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**SECTION 12. Ecological information** ... / >>

Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl- 2H- isothiazol- 3-one (3:1)

Partition coefficient: n-octanol/water 0,75

OCTAMETHYLCYCLOTETRA-SILOXANE

Partition coefficient: n-octanol/water 6,49 Log Kow
BCF 14900 L/kg ww

2-METHYL-4-ISOTHIAZOLIN-3-ONE

Partition coefficient: n-octanol/water -0,32 Log Kow

DIETHYLENE GLYCOL MONOETHYL ETHER

Partition coefficient: n-octanol/water -0,8
BCF < 100

12.4. Mobility in soil

METHYL METHACRYLATE

Partition coefficient: soil/water 0,94

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**

For disposal or recovery in EU countries , use the relevant waste code (EWC code) identified in the European Waste Catalogue. The producer of the waste must assign the EWC code according to the sector and type of process. Disposal must be carried out by an authorised waste management company.

After the producer of the waste has assigned the EWC code, the contaminated packaging must be sent for recovery or disposal in compliance with the European waste management regulations. Disposal must be carried out by an authorised waste management company. For waste disposal or recovery in countries outside the EU, comply with the national or local regulations in force. For disposal or recovery of contaminated packaging in countries outside the EU, comply with the national or local regulations in force.

Waste transportation may be subject to regulations on transportation of hazardous goods.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable



SECTION 14. Transport information ... / >>

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

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: None

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

Product

Point 3 - 40

Contained substance

Point 75

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

not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

VOC (Directive 2004/42/EC) :

Interior / exterior trim varnishes and woodstains, including opaque woodstains.

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. 3	Acute toxicity, category 3
STOT SE 1	Specific target organ toxicity - single exposure, category 1
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin 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
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H361f	Suspected of damaging fertility.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

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

**SECTION 16. Other information ... / >>**

- 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)
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)
23. Delegated Regulation (UE) 2023/707

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

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

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