



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: YL---M602/--C02
Product name: TWO-PACK BASE COAT, INTERIOR, WHITE
UFI : WK7D-K02A-F00E-397X

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

Intended use: TWO-PACK WB BASE COAT

Identified Uses	Industrial	Professional	Consumer
Water-based base coat, interior, for industrial and professional uses	PROC: 10, 13, 7. PC: 9a.	PROC: 10, 11, 13. PC: 9a.	-

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 ugunsdzesības un glabšanas 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

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:

Skin sensitization, category 1

H317

May cause an allergic skin reaction.

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:

H317

May cause an allergic skin reaction.

Precautionary statements:

P280

Wear protective gloves.

P261

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

P333+P313

If skin irritation or rash occurs: Get medical advice / attention.

P362+P364

Take off contaminated clothing and wash it before reuse.

Contains:

POLYACRYLATE

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

2-METHYL-4-ISOTHIAZOLIN-3-ONE



SECTION 2. Hazards identification ... / >>

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration $\geq$ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
3-BUTOXYPROPAN-2-OL		
INDEX 603-052-00-8	3 ≤ x < 5	Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 225-878-4		
CAS 5131-66-8		
REACH Reg. 01-2119475527-28-XXXX		
POLYACRYLATE		
INDEX	1,5 ≤ x < 2	Skin Sens. 1 H317
EC		
CAS 1478809-47-0		
STABILIZED SALT OF 2-DIMETHYLAMINOETHANOL		
INDEX 603-047-00-0	0,5 ≤ x < 1	Flam. Liq. 3 H226, Acute Tox. 3 H331, Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335 Flam. Liq. 3 H226: ≥ 100%, Skin Corr. 1B H314: ≥ 100%, Skin Irrit. 2 H315: ≥ 100%, Eye Dam. 1 H318: ≥ 100%, Eye Irrit. 2 H319: ≥ 100%, STOT SE 3 H335: ≥ 5% ATE Oral: 500 mg/kg, ATE Dermal: 1100 mg/kg, ATE Inhalation mists/powders: 0,501 mg/l, ATE Inhalation vapours: 3 mg/l
EC 203-542-8		
CAS 108-01-0		
REACH Reg. 01-2119492298-24-XXXX		
2-(2-BUTOXYETHOXY)ETHANOL		
INDEX 603-096-00-8	0,25 ≤ x < 0,5	Eye Irrit. 2 H319
EC 203-961-6		
CAS 112-34-5		
REACH Reg. 01-2119475104-44		
2-BUTOXYETHANOL		
INDEX 603-014-00-0	0,05 ≤ x < 0,1	Acute Tox. 3 H331, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315 LD50 Oral: 1200 mg/kg, LC50 Inhalation vapours: 3 mg/l/4h
EC 203-905-0		
CAS 111-76-2		
REACH Reg. 01-2119475108-36		
ETHYLENE GLYCOL		
INDEX 603-027-00-1	0 ≤ x < 0,05	Acute Tox. 4 H302, STOT RE 2 H373 ATE Oral: 500 mg/kg
EC 203-473-3		
CAS 107-21-1		
REACH Reg. 01-2119456816-28-xxxx		
Silicic acid, lithium magnesium sodium salt		
INDEX	0 ≤ x < 0,05	Substance with a community workplace exposure limit.
EC 258-476-2		
CAS 53320-86-8		
REACH Reg. 01-2119489772-23-xxxx		
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica		
INDEX	0 ≤ x < 0,01	Substance with a community workplace exposure limit.
EC 272-697-1		
CAS 68909-20-6		
REACH Reg. 01-2120764690-50		
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 Skin Sens. 1A H317: ≥ 0,0015% LD50 Oral: 285 mg/l/4h, LD50 Dermal: 242 mg/l/4h, LC50 Inhalation mists/powders: 0,11 mg/l/4h
EC 220-239-6		
CAS 2682-20-4		
REACH Reg. 01-2120764690-50		
Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one		



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

methyl- 2H- isothiazol- 3-one (3:1)INDEX 613-167-00-5 $0 \leq x < 0,0015$

EC 911-418-6

CAS 55965-84-9

REACH Reg. 01-2120764691-48

AMMONIAINDEX 007-001-01-2 $0 \leq x < 0,01$

EC 215-647-6

CAS 1336-21-6

REACH Reg. 01-2119488876-14

ETHYL ACETATEINDEX 607-022-00-5 $0 \leq x < 0,01$

EC 205-500-4

CAS 141-78-6

REACH Reg. 01-2119475103-46

CYCLOHEXANEINDEX 601-017-00-1 $0 \leq x < 0,01$

EC 203-806-2

CAS 110-82-7

REACH Reg.

Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071
Skin Corr. 1C H314: $\geq 0,6\%$, Skin Irrit. 2 H315: $\geq 0,06\%$, Skin Sens. 1A H317: $\geq 0,0015\%$, Eye Dam. 1 H318: $\geq 0,6\%$, Eye Irrit. 2 H319: $\geq 0,06\%$
LD50 Oral: >53 mg/kg, LD50 Dermal: >87 mg/kg, LC50 Inhalation mists/powders: 0,31 mg/l/4h

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
STOT SE 3 H335: $\geq 5\%$

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

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.

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.

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)

See the exposure scenarios attached to this safety datasheet.

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	Nariadení vlády č. 41/2020 Sb. Nariadení vlády, kterým se mění nariadení 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 töökeskkonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH



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GRC	Ελλάδα	HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25 Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelethe 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
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	mg/m3	ppm	
VLEP	ITA	14	20	36	50	
OEL	EU	14	20	36	50	

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	Acute	Chronic	Chronic	Acute	Chronic	Chronic	Chronic
Oral	VND	6,8	VND	6,8	VND	VND	VND	VND
		mg/kg/d		mg/kg bw/d				
Inhalation	7,2	23,8	2,8	23,8	36	47,6	14	47,6
Skin	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
		6,8	68	68	VND	6,8	VND	6,8
		mg/kg bw/d	mg/kg/d	mg/kg bw/d		mg/kg bw/d		mg/kg bw/d



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

KAOLIN

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
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

TITANIUM DIOXIDE

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
TLV	BGR	10				RESP
VLA	ESP	10				
TLV	EST	5				
VLEP	FRA	10				
TLV	GRC		10			
GVI/KGVI	HRV	10				INHAL
GVI/KGVI	HRV	4				RESP
RD	LTU	5				
RV	LVA	10				
TLV	NOR	5				
NDS/NDSch	POL	10				INHAL
TLV	ROU	10		15		
NPEL	SVK	5				
WEL	GBR	10				INHAL
WEL	GBR	4				RESP
TLV-ACGIH		10				

Predicted no-effect concentration - PNEC

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

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				700 mg/kg bw/d				
Inhalation							10 mg/m3	



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2-(2-BUTOXYETHOXY)ETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	67,5	10	101,2	15	
TLV	CZE	70	10,36	100	14,8	
AGW	DEU	67	10	100,5 (C)	15 (C)	Hinweis
MAK	DEU	67	10	100,5	15	Hinweis
VLA	ESP	67,5	10	101,2	15	
VLEP	FRA	68	10	101,2	15	
HTP	FIN	68	10			
TLV	GRC	67,5	10	101,2	15	
AK	HUN	67,5		101,2		
GVII/KGVI	HRV	67,5	10	101,2	15	
VLEP	ITA	67,5	10	101,2	15	
RD	LTU	67,5	10	101,2	15	
RV	LVA	67,5	10	101,2	15	
TLV	NOR	68	10			
TGG	NLD	50		100		SKIN
VLE	PRT	67,5	10	101,2	15	
NDS/NDSch	POL	67		100		
TLV	ROU	67,5	10	101,2	15	
NPEL	SVK	67,5	10	101,2	15	
MV	SVN	67,5	10	101,2	15	
ESD	TUR	67,5	10	101,2	15	
WEL	GBR	67,5	10	101,2	15	
OEL	EU	67,5	10	101,2	15	
TLV-ACGIH		66	10			INHAL

Predicted no-effect concentration - PNEC

Normal value in fresh water	1,1	mg/l
Normal value in marine water	0,11	mg/l
Normal value for fresh water sediment	4,4	mg/kg
Normal value for marine water sediment	0,44	mg/kg
Normal value for water, intermittent release	11	mg/l
Normal value of STP microorganisms	200	mg/l
Normal value for the food chain (secondary poisoning)	56	mg/kg
Normal value for the terrestrial compartment	0,32	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		NPI	1,25	6,25 mg/kg bw/d				
Inhalation	LOW	NPI	LOW	NPI	101,2 mg/m3	NPI	67,5 mg/m3	NPI
Skin	NPI	NPI	NPI	NPI	NPI	NPI	LOW	NPI



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

3-BUTOXYPROPAN-2-OL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	270	49,14	550	100,1	SKIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,525	mg/l
Normal value in marine water	0,0525	mg/l
Normal value for fresh water sediment	2,36	mg/kg
Normal value for marine water sediment	0,236	mg/kg
Normal value for water, intermittent release	5,25	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,16	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				12,5 mg/kg bw/d				
Inhalation			VND	43 mg/m3			VND	147 mg/m3
Skin				22 mg/kg bw/d				52 mg/kg bw/d



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CYCLOHEXANE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	700	200			
TLV	CZE	700	200,2	2000	572	
AGW	DEU	700	200	2800	800	
MAK	DEU	700	200	2800	800	
VLA	ESP	700	200			
TLV	EST	700	200			
VLEP	FRA	700	200	1300	375	11
HTP	FIN	350	100	875	250	
TLV	GRC	700	200			
AK	HUN	700				
GVI/KGVI	HRV	700	200			SKIN
VLEP	ITA	350	100			
RD	LTU	700	200			
RV	LVA	80	23			
TLV	NOR	525	150			
TGG	NLD	700		1400		
VLE	PRT	700	200			
NDS/NDSch	POL	300		1000		SKIN
TLV	ROU	700	200			
NPEL	SVK	700	200			
MV	SVN	700	200	2800	800	
ESD	TUR	700	200			
WEL	GBR	350	100	1050	300	
OEL	EU	700	200			
TLV-ACGIH		344	100			

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,207	mg/l
Normal value in marine water	0,207	mg/l
Normal value for marine water sediment	16,68	mg/kg
Normal value for the terrestrial compartment	3,38	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				59,4 mg/kg bw/d				
Inhalation	412 mg/m3	412 mg/m3	206 mg/m3	206 mg/m3	1400 mg/m3	1400 mg/m3	700 mg/m3	700 mg/m3
Skin				1186 mg/kg bw/d				2016 mg/kg bw/d



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2-BUTOXYETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	98	20	246	50	SKIN
TLV	CZE	100	20,4	200	40,8	SKIN
AGW	DEU	49	10	98 (C)	20 (C)	SKIN
MAK	DEU	49	10	98	20	SKIN Hinweis
VLA	ESP	98	20	245	50	SKIN
TLV	EST	98	20	246	50	
VLEP	FRA	49	10	246	50	SKIN
HTP	FIN	98	20	250	50	SKIN
TLV	GRC	120	25			
AK	HUN	98		246		SKIN
GVI/KGVI	HRV	98	20	246	50	SKIN
VLEP	ITA	98	20	246	50	SKIN
RD	LTU	50	10	100	20	SKIN
RV	LVA	98	20	246	50	SKIN
TLV	NOR	50	10			SKIN
TGG	NLD	100		246		SKIN
VLE	PRT	98	20	246	50	SKIN
NDS/NDSch	POL	98		200		SKIN
TLV	ROU	98	20	246	50	SKIN
NPEL	SVK	98	20	246	50	SKIN
MV	SVN	98	20	246	50	SKIN
ESD	TUR	98	20	246	50	SKIN
WEL	GBR	123	25	246	50	SKIN
OEL	EU	98	20	246	50	SKIN
TLV-ACGIH		97	20			

Predicted no-effect concentration - PNEC

Normal value in fresh water	8,8	mg/l
Normal value in marine water	0,88	mg/l
Normal value for fresh water sediment	34,6	mg/kg
Normal value for marine water sediment	3,46	mg/kg
Normal value for water, intermittent release	9,1	mg/l
Normal value of STP microorganisms	463	mg/l
Normal value for the food chain (secondary poisoning)	20	mg/kg
Normal value for the terrestrial compartment	2,33	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	26,7 mg/kg bw/d	VND	6,3 mg/kg bw/d				
Inhalation	426 mg/m3	147 mg/m3	VND	59 mg/m3	246 mg/m3	1091 mg/m3	VND	98 mg/m3
Skin	MED	VND	VND	VND	VND	VND	VND	VND



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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

STABILIZED SALT OF 2-DIMETHYLAMINOETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
WEL	GBR	7,4	2	22	6	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,066	mg/l
Normal value in marine water	0,007	mg/l
Normal value for marine water sediment	0,053	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,018	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					22 mg/m3	22 mg/m3	7,4 mg/m3	7,4 mg/m3
Skin					0,08 mg/cm2	5 mg/kg bw/d		1,04 mg/kg bw/d



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ETHYL ACETATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m ³	ppm	mg/m ³	ppm	
TLV	BGR	734	200	1468	400	
TLV	CZE	700	191,1	900	245,7	
AGW	DEU	730	200	1460	400	
MAK	DEU	750	200	1500	400	
VLA	ESP	734	200	1468	400	
TLV	EST	500	150	1100	300	
VLEP	FRA	734	200	1468	400	
HTP	FIN	730	200	1470	400	
TLV	GRC	734	200	1468	400	
AK	HUN	734		1468		
GVI/KGVI	HRV	734	200	1468	400	
VLEP	ITA	734	200	1468	400	
RD	LTU	500	150	1100 (C)	300 (C)	
RV	LVA	200	54	1468	400	
TLV	NOR	734	200			
TGG	NLD	734		1468		
VLE	PRT	734	200	1468	400	
NDS/NDSch	POL	734		1468		
TLV	ROU	734	200	1468	400	
NPEL	SVK	734	200	1468	400	
MV	SVN	734	200	1468	400	
WEL	GBR	734	200	1468	400	
OEL	EU	734	200	1468	400	
TLV-ACGIH		1441	400			

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,24	mg/l
Normal value in marine water	0,024	mg/l
Normal value for fresh water sediment	1,15	mg/kg
Normal value for marine water sediment	0,115	mg/kg
Normal value for water, intermittent release	1,65	mg/l
Normal value of STP microorganisms	650	mg/l
Normal value for the food chain (secondary poisoning)	200	mg/kg
Normal value for the terrestrial compartment	0,148	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				4,5 mg/kg bw/d				
Inhalation	734 mg/m ³	734 mg/m ³	367 mg/m ³	367 mg/m ³	1468 mg/m ³	1468 mg/m ³	734 mg/m ³	734 mg/m ³
Skin				37 mg/kg bw/d			37	63 mg/kg bw/d

CALCIUM CARBONATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m ³	ppm	mg/m ³	ppm	
VLEP	FRA	10				
GVI/KGVI	HRV	10				INHAL
GVI/KGVI	HRV	4				RESP
RV	LVA	6				
NDS/NDSch	POL	10				INHAL



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		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
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	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		0,11		0,09				
		mg/kg bw/d		mg/kg bw/d				
Inhalation	0,02		0,04		0,04		0,02	
	mg/m3		mg/m3		mg/m3		mg/m3	

Silicic acid, lithium magnesium sodium salt

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	10				INHAL
OEL	EU	4				RESP

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,1	mg/l
Normal value in marine water	0,1	mg/l
Normal value for water, intermittent release	0,1	mg/l
Normal value of STP microorganisms	1	mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		20		2,5				
		mg/kg bw/d		mg/kg bw/d				
Inhalation	10	10	6,5	10	10	10	10	10
	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin	0,4	20	1	2,5	1	40	40	1
	mg/cm2	mg/kg bw/d	mg/cm2	mg/kg bw/d	mg/kg bw/d	mg/kg	mg/kg bw/d	mg/kg
						bw/d	bw/d	bw/d



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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	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral	0,053	0,053	0,027	0,027				
		mg/kg bw/d		mg/kg bw/d				
Inhalation	0,043		0,021		0,043		0,021	
	mg/m3		mg/m3		mg/m3		mg/m3	

Silanameine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
OEL	EU	3				RESP

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.

For information on controlling environmental exposure, see the exposure scenarios attached to this safety datasheet.



SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	white	
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	> 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	7-8	
Kinematic viscosity	>20,5 mm ² /sec (40°C)	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,18 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)	41,16 %	
VOC (Directive 2010/75/EU)	4,16 % - 49,06	g/litre
VOC (volatile carbon)	2,53 % - 29,83	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.

2-(2-BUTOXYETHOXY)ETHANOL

Forms peroxides with: air.

2-BUTOXYETHANOL

Decomposes under the effect of heat.

ETHYLENE GLYCOL

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

ETHYL ACETATE

May react with: acids, bases, strong oxidants. Attacks: aluminium.

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

CALCIUM CARBONATE

Decomposes at temperatures above 800°C/1472°F.

10.2. Chemical stability

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

2-(2-BUTOXYETHOXY)ETHANOL

Stable in normal conditions of use and storage. Avoid exposure to: air, heat, light.

10.3. Possibility of hazardous reactions

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

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

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

2-(2-BUTOXYETHOXY)ETHANOL

May react with: oxidising substances. May form peroxides with: oxygen. Develops hydrogen on contact with: aluminium. May form explosive mixtures with: air.

CYCLOHEXANE

May react violently with: strong oxidants, liquid nitric oxide. Forms explosive mixtures with: air.

2-BUTOXYETHANOL

May react dangerously with: aluminium, oxidising agents. Forms peroxides 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 peroxide, aluminium. Forms explosive mixtures with: air.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

10.4. Conditions to avoid

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

2-(2-BUTOXYETHOXY)ETHANOL

Avoid exposure to: air.

2-BUTOXYETHANOL

Avoid exposure to: sources of heat, naked flames.

ETHYLENE GLYCOL

Avoid exposure to: sources of heat, naked flames.

ETHYL ACETATE

Avoid exposure to: light, 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.

2-(2-BUTOXYETHOXY)ETHANOL

Incompatible with: oxidising substances, strong acids, alkaline metals.

CYCLOHEXANE

Incompatible materials: natural rubbers, neoprene, polyvinyl chloride, polyethylene.

2-BUTOXYETHANOL

Incompatible with: oxidising substances, alkaline substances, light metals.

ETHYL ACETATE

Incompatible with: acids, bases, strong oxidants, aluminium, nitrates, chlorosulphuric acid. Incompatible materials: plastic materials.

CALCIUM CARBONATE

Incompatible with: acids.

10.6. Hazardous decomposition products**AMMONIA**

May develop: nitric oxide.

2-(2-BUTOXYETHOXY)ETHANOL

May develop: hydrogen.

2-BUTOXYETHANOL

May develop: hydrogen.

ETHYLENE GLYCOL

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

ETHYL ACETATE

When heated to decomposition releases: harsh fumes, irritating vapours.

CALCIUM CARBONATE

May develop: calcium oxides, carbon oxides.

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

**SECTION 11. Toxicological information ... / >>**Information on likely routes of exposure

2-(2-BUTOXYETHOXY)ETHANOL
WORKERS: inhalation; contact with the skin.

CYCLOHEXANE
WORKERS: inhalation; contact with the skin.
POPULATION: ingestion of contaminated food or water; inhalation of ambient air; 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

2-(2-BUTOXYETHOXY)ETHANOL
May be absorbed by inhalation, ingestion and skin contact; is irritating for the skin and especially for the eyes. May cause damage to the spleen. At room temperature the danger of inhalation is unlikely, due to the low vapour pressure of the substance.

CYCLOHEXANE
Irritating for the skin and mucous membranes, and may be absorbed by the skin; nerve damage can occur at high doses and is largely due to the cyclohexanone, its metabolite.

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

CYCLOHEXANE
The substance may enhance the effects of agents such as tri-ortho-cresyl phosphate (TOCP).

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Inhalation - gas) of the mixture:	0,0 mg/l
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)

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

TITANIUM DIOXIDE	
LD50 (Dermal):	> 10000 mg/kg
LD50 (Oral):	> 5000 mg/kg
LC50 (Inhalation mists/powders):	6,82 mg/l/4h

2-(2-BUTOXYETHOXY)ETHANOL	
LD50 (Dermal):	2764 mg/kg coniglio
LD50 (Oral):	2410 mg/kg ratto

3-BUTOXYPROPAN-2-OL	
LD50 (Dermal):	> 2000 mg/kg ratto
LD50 (Oral):	3300 mg/kg ratto
LC50 (Inhalation vapours):	> 3,4 mg/l/4h ratto

CYCLOHEXANE	
LD50 (Dermal):	> 2000 mg/kg
LD50 (Oral):	1270 mg/kg
LC50 (Inhalation vapours):	13,9 mg/l/4h



SECTION 11. Toxicological information ... / >>

2-BUTOXYETHANOL

LD50 (Dermal):	1100 mg/kg
LD50 (Oral):	1200 mg/kg Guinea pig
LC50 (Inhalation vapours):	3 mg/l/4h Rat

ETHYLENE GLYCOL

LD50 (Dermal):	> 3500 mg/kg topo
LD50 (Oral):	7712 mg/kg ratto

STABILIZED SALT OF 2-DIMETHYLAMINOETHANOL

ATE (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
ATE (Dermal):	1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
ATE (Inhalation mists/powders):	0,501 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
ATE (Inhalation vapours):	3 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

ETHYL ACETATE

LD50 (Dermal):	> 18000 mg/kg coniglio
LD50 (Oral):	4934 mg/kg bw coniglio
LC50 (Inhalation vapours):	> 22,5 mg/l/6h ratto

CALCIUM CARBONATE

LD50 (Oral):	6450 mg/kg Rat
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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

CALCIUM STEARATE

LD50 (Oral):	> 10000 mg/kg ratto - Rat
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Silicic acid, lithium magnesium sodium salt

LD50 (Dermal):	> 2000 mg/kg coniglio
LC50 (Inhalation mists/powders):	> 200 mg/l 1h ratto

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

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

LD50 (Oral):	> 2000 mg/kg
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POLYACRYLATE

LD50 (Oral):	> 5000 mg/kg Ratto
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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

Sensitising for the skin

Respiratory sensitization

Information not available

Skin sensitization



SECTION 11. Toxicological information ... / >>

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 Viscosity: >20,5 mm²/sec (40°C)

TITANIUM DIOXIDE

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

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

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

AMMONIA

LC50 - for Fish	0,89 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	0,66 mg/l/48h Daphnia pulex
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

TITANIUM DIOXIDE

LC50 - for Fish	> 10000 mg/l/96h Fundulus heteroclitus
EC50 - for Crustacea	> 1000 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h

2-(2-BUTOXYETHOXY)ETHANOL

LC50 - for Fish	1300 mg/l/96h Lepomis macrochirus
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna

3-BUTOXYPROPAN-2-OL

LC50 - for Fish	> 560 mg/l/96h Poecilia reticulata
EC50 - for Crustacea	> 1000 mg/l/48h Daphnia magna

CYCLOHEXANE

LC50 - for Fish	4,53 mg/l/96h Pimephales promelas
EC50 - for Crustacea	0,9 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	32,7 mg/l/72h Chlorella vulgaris
Chronic NOEC for Algae / Aquatic Plants	0,952 mg/l 72 h

2-BUTOXYETHANOL

LC50 - for Fish	1474 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	1550 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	623 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Fish	> 100 mg/l Brachydanio rerio
Chronic NOEC for Crustacea	> 100 mg/l Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	88 mg/l

ETHYLENE GLYCOL

EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna
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STABILIZED SALT OF 2-DIMETHYLAMINOETHANOL

LC50 - for Fish	146,63 mg/l/96h Leuciscus ides
EC50 - for Crustacea	105,42 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	66,08 mg/l/72h Desmodesmus subspicatus

ETHYL ACETATE

LC50 - for Fish	230 mg/l/96h Pimephales promelas
EC50 - for Crustacea	165 mg/l/48h Daphnia cucullata
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Desmodesmus suspicatus
Chronic NOEC for Fish	< 9,65 mg/l Pimephales promelas
Chronic NOEC for Crustacea	2,4 mg/l Daphnia magna (21d)

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



SECTION 12. Ecological information ... / >>

Silicic acid, lithium magnesium sodium salt

LC50 - for Fish

> 100 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

> 100 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

> 100 mg/l/72h Pseudokirchneriella subcapitata

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 Pseudokirchneriella 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 Pseudokirchneriella subcapitata

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

LC50 - for Fish

> 1000 mg/l/96h Brachydanio rerio

EC50 - for Crustacea

> 100 mg/l/48h Daphnia magna

POLYACRYLATE

LC50 - for Fish

1778 mg/l/96h Danio rerio

12.2. Persistence and degradability

AMMONIA

Degradability: information not available

TITANIUM DIOXIDE

Solubility in water

< 0,001 mg/l

Degradability: information not available

2-(2-BUTOXYETHOXY)ETHANOL

Solubility in water

1000 - 10000 mg/l

Rapidly degradable

3-BUTOXYPROPAN-2-OL

Solubility in water

52000 mg/l

Rapidly degradable

98%/28d

CYCLOHEXANE

Solubility in water

0,1 - 100 mg/l

Rapidly degradable

2-BUTOXYETHANOL

Solubility in water

1000 - 10000 mg/l

Rapidly degradable

ETHYLENE GLYCOL

Solubility in water

1000 - 10000 mg/l

Rapidly degradable

STABILIZED SALT OF 2-DIMETHYLAMINOETHANOL

Solubility in water

1000 - 10000 mg/l

Rapidly degradable

60%/14d

ETHYL ACETATE

Solubility in water

> 10000 mg/l

Rapidly degradable

70%, 20 d

CALCIUM CARBONATE

Solubility in water

0,1 - 100 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)

NOT rapidly degradable

Silicic acid, lithium magnesium sodium salt

NOT rapidly degradable



SECTION 12. Ecological information ... / >>

2-METHYL-4-ISOTHIAZOLIN-3-ONE

NOT rapidly degradable

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

Entirely degradable

POLYACRYLATE

NOT rapidly degradable

12.3. Bioaccumulative potential

2-(2-BUTOXYETHOXY)ETHANOL

Partition coefficient: n-octanol/water 1

3-BUTOXYPROPAN-2-OL

Partition coefficient: n-octanol/water 1,2

CYCLOHEXANE

Partition coefficient: n-octanol/water 3,44

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81

ETHYLENE GLYCOL

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

STABILIZED SALT OF 2-DIMETHYLAMINOETHANOL

Partition coefficient: n-octanol/water -0,55

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68

BCF 30

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

2-METHYL-4-ISOTHIAZOLIN-3-ONE

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

12.4. Mobility in soil

2-(2-BUTOXYETHOXY)ETHANOL

Partition coefficient: soil/water 10

CYCLOHEXANE

Partition coefficient: soil/water 2,89

2-BUTOXYETHANOL

Partition coefficient: soil/water 0,45

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

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

**SECTION 15. Regulatory information ... / >>**

not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

2-(2-BUTOXYETHOXY)ETHANOL

2-BUTOXYETHANOL

ETHYL ACETATE

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
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
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
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.

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

H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.

Use descriptor system:

PC 9a	Coatings and paints, thinners, paint removers
PROC 10	Roller application or brushing
PROC 11	Non industrial spraying
PROC 13	Treatment of articles by dipping and pouring
PROC 7	Industrial spraying

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)
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

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

- 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 / 07 / 08 / 09 / 11 / 12 / 15 / 16 / Exposure Scenarios.

Exposure Scenarios

Substance 2-(2-BUTOXYETHOXY)ETHANOL
Scenario Title BUTYL DIGLYCOL
Revision nr. 1
File EN_CAS 112-34-5_1.pdf

Substance 2-BUTOXYETHANOL
Scenario Title BUTYL GLYCOL
Revision nr. 2
File EN_CAS 111-76-2_1.pdf

Substance ETHYL ACETATE
Scenario Title ETHYL ACETATE
Revision nr. 1
File EN_CAS141_78_6_1.pdf