

**BELLINZONI S.R.L.**

Revision nr. 2

Dated 21/03/2024

Printed on 21/03/2024

Page n. 1/37

Replaced revision:1 (Printed on: 25/02/2022)

B-DURALBRILL

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: P077DBR - P077DBR10L - P077DBR50L
Product name: B-DURALBRILL
UFI: 1G21-C0AY-6004-NXKU

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

Intended use: Aqueous nanotechnological emulsion for polishing marble and granite

Identified Uses	Industrial	Professional	Consumer
Waxy emulsion	-	ERC: 8c, 8f. PROC: 10, 8a. PC: 15, 31. LCS: PW.	ERC: 8c, 8f. PC: 15, 31. LCS: C. .

1.3. Details of the supplier of the safety data sheet

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

e-mail address of the competent person

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

1.4. Emergency telephone number

For urgent inquiries refer to

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

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SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Eye irritation, category 2	H319	Causes serious eye irritation.
Skin sensitization, category 1A	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:

H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
EUH210	Safety data sheet available on request.

Precautionary statements:

P102	Keep out of reach of children.
P280	Wear protective gloves / eye protection / face protection.
P302+P352	IN CASE OF CONTACT WITH SKIN: wash thoroughly with soap and water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P337+P313	If eye irritation persists: Get medical advice / attention.
P501	Dispose of the product / container in accordance with local / regional / national / international regulations.

Contains: 2-METHYL-2H-ISOTHIAZOL-3-ONE

2.3. Other hazards

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

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

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SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
POLY(OXY-1,2-ETHANEDIYL), α-ISODECYL-Ω-HYDROXY-INDEX -	$1 \leq x < 2$	Eye Dam. 1 H318
EC 612-519-5		
CAS 61827-42-7		
ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED > 15EO INDEX -	$0,4 \leq x < 0,55$	Eye Irrit. 2 H319
EC -		
CAS 68920-66-1		
REACH Reg. Polymer, exempt from REACH registration Art. 2(9)		
2-DIETHYLAMINOETHANOL INDEX 603-048-00-6	$0,1 \leq x < 0,25$	Flam. Liq. 3 H226, Acute Tox. 3 H311, Acute Tox. 3 H331, Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335
EC 202-845-2		STOT SE 3 H335: $\geq 5\%$
CAS 100-37-8		LD50 Oral: 1320 mg/kg, LD50 Dermal: 885 mg/kg, STA Inhalation vapours: 3 mg/l
REACH Reg. 01-2119488937-14		
ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED 5-10 EO INDEX -	$0,1 \leq x < 0,25$	Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1
EC -		
CAS 68920-66-1		
REACH Reg. Polymer, exempt from REACH registration Art. 2(9)		
DIPROPYLENE GLYCOL MONOMETHYL ETHER INDEX -	$0,1 \leq x < 0,25$	Substance with a community workplace exposure limit.
EC 252-104-2		
CAS 34590-94-8		
REACH Reg. 01-2119450011-60		
RESIN ACIDS AND ROSIN ACIDS, FUMARATED, ESTERS WITH PENTAERYTHRITOL INDEX -	$0,05 \leq x < 0,1$	Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Chronic 4 H413
EC 305-514-1		
CAS 94581-15-4		
REACH Reg. 01-2119485895-17		

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MIXTURE OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE (EINECS 247-500-7) AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (EINECS 220-239-6) (MIXTURE OF CMIT/MIT 3:1)

INDEX 613-167-00-5 $0 \leq x < 0,0015$

Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC - Skin Corr. 1B H314: $\geq 0,6\%$, Skin Irrit. 2 H315: $\geq 0,06\%$, Skin Sens. 1 H317: $\geq 0,0015\%$, Eye Dam. 1 H318: $\geq 0,6\%$, Eye Irrit. 2 H319: $\geq 0,06\%$

CAS 55965-84-9 STA Oral: 100 mg/kg, STA Dermal: 300 mg/kg, STA Inhalation vapours: 3 mg/l, STA Inhalation mists/powders: 0,501 mg/l

REACH Reg. 01-2120764691-48-XXXX

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.

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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)

Information not available

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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

AUS	Österreich	Gesamte Rechtsvorschrift für Grenzwerteverordnung 2021, Fassung vom 17.06.2021
BEL	Belgique	Liste de valeurs limites d'exposition aux agents chimiques, livre VI du code du bien-être au travail
BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail: VME/VLE (SUVA). Grenzwerte am Arbeitsplatz: MAK (SUVA)
CYP	Κύπρος	Οι περί Αζθάλειας και Υγείας στην Εργασία (Φημικοί Πατάγονηρ) (Τποποποιητικοί) Κανονισμοί ηος 2019. Οι περί Ασφάλειας και Υγείας στην Εργασία (Καρκινογόνοι και Μεταλλαξιογόνοι Παράγοντες) (Τροποποιητικοί) Κανονισμοί του 2020
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervihoiu ja tööhutuse 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 HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM 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
IRL	Éire	2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)
LUX	Luxembourg	Règlement grand-ducal du 24 janvier 2020 modifiant le règlement grand-ducal du 14 novembre 2016 concernant la protection des salariés contre les risques liés à l'exposition à des agents cancérigènes ou mutagènes au travail
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. §)
MLT	Malta	PROTECTION OF THE HEALTH AND SAFETY OF WORKERS FROM THE RISKS RELATED TO CHEMICAL AGENTS AT WORK REGULATIONS (S.L.424.24). PROTECTION OF WORKERS FROM THE RISKS RELATED TO EXPOSURE TO CARCINOGENS OR MUTAGENS AT WORK REGULATIONS (S.L.424.22)
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdi og grenseverdi for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdi), 21. august 2018 nr. 1255
NLD	Nederland	Arbidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbidsomstandighedenbesluit
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
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
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

ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED 5-10 EO								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,0072	mg/l			
Normal value for fresh water sediment				22,79	mg/kg			
Normal value for marine water sediment				2,28	mg/kg			
Normal value for water, intermittent release				0,01	mg/l			
Normal value of STP microorganisms				10000	mg/l			
Normal value for the terrestrial compartment				1	mg/kg			
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers			Chronic systemic	Effects on workers			
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				25 mg/kg bw/d				
Inhalation				87 mg/m3				294 mg/m3
Skin				1250 mg/kg bw/d				2080 mg/kg bw/d
DIPROPYLENE GLYCOL MONOMETHYL ETHER								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	308	50			SKIN		
TLV	CZE	270	47,34	550	89,1	SKIN		
AGW	DEU	310	50	310	50			
MAK	DEU	310	50	310	50			
VLA	ESP	308	50			SKIN		
VLEP	FRA	308	50			SKIN		
TLV	GRC	600	10	900	150			
AK	HUN	308						
VLEP	ITA	308	50			SKIN		
TLV	NOR	300	50			SKIN		
TGG	NLD	300						
VLE	PRT	308	50			SKIN		
NDS/NDSCh	POL	240		480		SKIN		
TLV	ROU	308	50			SKIN		
NGV/KGV	SWE	300	50	450 (C)	75 (C)	SKIN		
NPEL	SVK	908	50			SKIN		
MV	SVN	308	50			SKIN		
WEL	GBR	308	50			SKIN		
OEL	EU	308	50			SKIN		
Predicted no-effect concentration - PNEC								
Normal value in fresh water				19	mg/l			
Normal value in marine water				1,9	mg/l			

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Normal value for fresh water sediment									70,2	mg/kg
Normal value for marine water sediment									7,02	mg/kg
Normal value for the terrestrial compartment									274	mg/kg
Health - Derived no-effect level - DNEL / DMEL										
		Effects on consumers			Effects on workers					
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic		
Inhalation				3.2 mg/m3				310 mg/m3		
Skin				15 mg/kg bw/d				65 mg/kg bw/d		

RESIN ACIDS AND ROSIN ACIDS, FUMARATED, ESTERS WITH PENTAERYTHRITOL										
Predicted no-effect concentration - PNEC										
Normal value in fresh water									0,1	mg/l
Normal value in marine water									0,01	mg/l
Normal value for fresh water sediment									231775	mg/kg/d
Normal value for marine water sediment									231775	mg/kg/d
Normal value for water, intermittent release									1	mg/l
Normal value of STP microorganisms									1,26	mg/l
Normal value for the terrestrial compartment									46206	mg/kg/d
Health - Derived no-effect level - DNEL / DMEL										
		Effects on consumers			Effects on workers					
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic		
Oral				1.046 mg/kg/d						
Inhalation							10 mg/m3			
Skin				1.046 mg/kg bw/d	2,09 mg/kg bw/d					

SODIUM HYDROXIDE										
Threshold Limit Value										
Type	Country	TWA/8h		STEL/15min		Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
MAK	AUS	2		4		INHAL		STEL:5(Mow), Häufigkeit/Sch:8x		
VLEP	BEL	2								
TLV	BGR	2								
MAK	CHE	2		2		INHAL				
VME/VLE	CHE	2		2		INHAL				
TLV	CZE	1		2						
TLV	DNK			2 (C)						
VLA	ESP			2						
VLEP	FRA	2								
HTP	FIN			2 (C)						
TLV	GRC	2		2						
AK	HUN	2		2						
GVI/KGVI	HRV			2						

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OELV	IRL	2							
RD	LTU	2 (C)							
RV	LVA	0,5							
TLV	NOR	2							
NDS/NDSch	POL	0,5	1						
NGV/KGV	SWE	1	2		INHAL				
NPEL	SVK	2							
MV	SVN	2	2		INHAL				
WEL	GBR	2							
TLV-ACGIH	2 (C)								
Health - Derived no-effect level - DNEL / DMEL									
	Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Inhalation			1 mg/m3				1 mg/m3		
2-METHYL-2H-ISOTHIAZOL-3-ONE									
Predicted no-effect concentration - PNEC									
Normal value in fresh water				3,39	µg/l				
Normal value in marine water				3,39	µg/l				
Normal value for water, intermittent release				3,39	µg/l				
Normal value of STP microorganisms				230	µg/l				
Normal value for the terrestrial compartment				47,1	µg/kg soil dw				
Health - Derived no-effect level - DNEL / DMEL									
	Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Inhalation	21 µg/m³			43 µg/m³	43 µg/m³		21 µg/m³		
Skin	53 mg/kg bw/d				27 mg/kg bw/d				
1,2-BENZISOTHIAZOL-3(2H)-ONE									
Predicted no-effect concentration - PNEC									
Normal value in fresh water				4,03	µg/l				
Normal value in marine water				403	ng/l				
Normal value for fresh water sediment				49,9	µg/l				
Normal value for marine water sediment				4,99	µg/kg				
Normal value for water, intermittent release				1,1	µg/l				
Normal value of STP microorganisms				1,03	mg/l				
Normal value for the terrestrial compartment				3	mg/kg soil dw				
Health - Derived no-effect level - DNEL / DMEL									
	Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Inhalation			1.2 mg/m3		6.81		6.81 mg/m3		
Skin			345 µg/kg bw/d				966 µg/kg bw/d		

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Normal value in marine water									1	mg/l
Normal value for fresh water sediment									52,3	mg/kg dw
Normal value for marine water sediment									5,2	mg/kg dw
Normal value for water, intermittent release									100	mg/l
Normal value of STP microorganisms									100	mg/l
Normal value for the terrestrial compartment									5,49	mg/kg

Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	VND	VND	3,3 mg/kg bw/d				
Inhalation	VND	VND	VND	43,9 mg/m3	553,5 mg/m3	VND	VND	369 mg/m3
Skin	VND	VND	VND	18,1 mg/kg bw/d	VND	VND	VND	50,6 mg/kg bw/d

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	
TLV-ACGIH		17	25	24	35	

2-BUTOXYETHANOL						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	98	20	200	40	SKIN
VLEP	BEL	98	20	246	50	SKIN
TLV	BGR	98	20	246	50	SKIN
MAK	CHE	49	10	98	20	SKIN
VME/VLE	CHE	49	10	98	20	SKIN
TLV	CYP	98	20	246	50	SKIN
TLV	CZE	100	20,7	200	41,4	SKIN
AGW	DEU	49	10	98 (C)	20 (C)	SKIN
MAK	DEU	49	10	98	20	SKIN
TLV	DNK	98	20			SKIN
VLA	ESP	98	20	245	50	SKIN
TLV	EST	98	20	246	50	SKIN
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

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OELV	IRL	98	20	246	50	SKIN		
VL	LUX	98	20	246	50	SKIN		
RD	LTU	50	10	100	20	SKIN		
RV	LVA	98	20	246	50	SKIN		
TLV	MLT	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		
NGV/KGV	SWE	50	10	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								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	26.7	26,7 mg/kg		6,3 mg/kg				
Inhalation	147 mg/m3	426 mg/m3		59 mg/m3	246 mg/m3	1091 mg/m3		98 mg/m3
2-ETHOXYETHANOL								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
MAK	AUS	8	2	32	8	SKIN	Häufigkeit pro Schicht:4x	
VLEP	BEL	8	2			SKIN		
TLV	BGR	8	2			SKIN		
MAK	CHE	7,5	2	60	16	SKIN		
VME/VLE	CHE	7,5	2	60	16	SKIN		
TLV	CYP	8	2			SKIN		

Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								0,083 mg/m3
Skin								0,3 mg/kg bw/d

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MIXTURE OF 5-CHLORO-2-METHYL-2H- ISOTHAZOL-3-ONE (EINECS 247-500-7) AND 2-METHYL-2H-ISOTHAZOL-3-ONE (EINECS 220-239-6) (MIXTURE OF CMIT/MIT 3:1)

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 dw
Normal value for marine water sediment	0,0027	mg/kg dw
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 dw

Health - Derived no-effect level - DNEL / DMEL								
Effects on consumers			Effects on workers					
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral						0,110 mg/kg bw/d		0,09 mg/kg bw/d
Inhalation	0,004 mg/m3		0,002 mg/m3		0,004 mg/m3		0,002 mg/m3	

Legend:

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

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

8.2. Exposure controls

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

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

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

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

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If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	Method:visual
Colour	beige	
Odour	characteristic	Method:own
Melting point / freezing point	0 °C	Method:own
Initial boiling point	> 100 °C	Method:own
Flammability	not flammable	
Lower explosive limit	not available	Reason for missing data:it does not contain substances classified as explosive
Upper explosive limit	not available	Reason for missing data:it does not contain substances classified as explosive
Flash point	> 60 °C	Remark:it does not contain substances classified as flammable
Auto-ignition temperature	not available	Reason for missing data:No explosive components or components that ignite spontaneously in contact with the air at room temperature
Decomposition temperature	not available	
pH	9.00 ± 0,50	Method:own instrument: METTLER TOLEDO SEVEN GO electrode: METTLER TOLEDO InLab 413 SG / 2m IP67
Kinematic viscosity	7 mm2/s	Method:Calculation
Dynamic viscosity	7 cP	Method:BROOKFIELD DV1 LV (spindle=1 / speed=100 / T=20°C)
Solubility	miscible in water in any ratio	Method:own
Partition coefficient: n-octanol/water	not available	Reason for missing data:The product is a blend
Vapour pressure	17,43 mmHg	Method:calculation
Density and/or relative density	1,03 - 1,07 g/cm3	Method:Own Instrument: METTLER TOLEDO DENSITOPRO
Relative vapour density	not available	

Particle characteristics

Median equivalent diameter	
Median equivalent diameter	1 - 100 nm
Size distribution	
D50	11 - 21 nm
Shape	
Shape	spherical

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9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 0,48 % - 5,04 g/litre

VOC (volatile carbon) 0,20 % - 2,09 g/litre

Explosive properties not explosive

Oxidising properties not oxidizing

Remark:it does not contain substances classified as explosive

Remark:it does not contain substances classified as oxidizing

SECTION 10. Stability and reactivity

10.1. Reactivity

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

1-METHOXY-2-PROPANOL

Dissolves various plastic materials.Stable in normal conditions of use and storage.

Absorbs and dissolves in water and in organic solvents. With air it may slowly form explosive peroxides.

AMMONIA

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

2-ETHOXYETHANOL

Attacks various types of plastic materials.Attacks various types of rubber.

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.

1-METHOXY-2-PROPANOL

May react dangerously with: strong oxidising agents,strong acids.

AMMONIA

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

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2-BUTOXYETHANOL

Reactions with light metals with formation of hydrogen. Reactions with strong oxidizing agents

2-ETHOXYETHANOL

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

10.4. Conditions to avoid

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

SODIUM HYDROXIDE

Avoid exposure to: air,moisture,sources of heat.

1-METHOXY-2-PROPANOL

Avoid exposure to: air.

2-BUTOXYETHANOL

Notes to physician: Maintain an adequate level of ventilation and oxygen supply to the patient. Because of the analogy structural and clinical data, this material may have an intoxication mechanism similar to that of ethylene glycol. Therefore, treatment similar to that for ethylene glycol poisoning may be beneficial. In cases of ingestion of quantities exceeding approx. 0.5 dl consider the administration of ethanol and hemodialysis in the treatment. We recommend consulting available literature for further details in treatment. If ethanol is used, a blood concentration therapeutically effective in the 100-150 mg/dl range can be achieved with a rapid loading dose followed by continuous intravenous infusion. Consult available literature for treatment details. 4-methyl pyrazole is an effective dehydrogenase blocker alcohol and is available as Fomepizole (Antizol(R)) and should be used in the treatment, if available, of drug poisoning mono, di or tri ethylene glycol, methanol and ethylene glycol butyl ether. Fomepizole Protocol (Brent J. et al., New EngJ Med, Feb 8 2001 244:6, p 424-9): loading dose 15 mg/kg intravenously, followed by maintenance dose of 10 mg/kg every 12 hours. After 48 hours increase dose to 15 mg/kg every 12 hours. Continue administration of Fomepizole until serum from methanol, mono glycol, or triethlenic is no longer present. Signs and symptoms of poisoning include anion deficiency in metabolic acidosis, depression of central nervous system, renal damage and possible end-stage cranial nerve involvement. Symptoms of respiratory character, including pulmonary edema, with delayed effect. People who are subjected to exposure significant, they should be kept under observation for 24-48 hours, in case any respiratory problems appear. In In case of severe poisoning, mechanical ventilation support with positive expiratory pressure may be required. In presence of burn, treat as thermal burn, after decontamination. It is suggested if gastric lavage is performed endotracheal and/or esophageal control. Dangers from pulmonary aspiration must be weighed against toxicity when gastric lavage is considered. Treatment in case of exposure should be aimed at controlling symptoms and the clinical conditions of the patient.

2-ETHOXYETHANOL

Avoid exposure to: light,sources of heat,naked flames.

10.5. Incompatible materials

SODIUM HYDROXIDE

Incompatible with: strong acids,ammonia,zinc,lead,aluminium,water,flammable liquids.

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1-METHOXY-2-PROPANOL

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

AMMONIA

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

2-BUTOXYETHANOL

Materials to avoid: strong oxidants

10.6. Hazardous decomposition products

AMMONIA

May develop: nitric oxide.

SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

1-METHOXY-2-PROPANOL

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.

2-ETHOXYETHANOL

WORKERS: inhalation; contact with the skin.

POPULATION: inhalation of ambient air.

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

1-METHOXY-2-PROPANOL

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product. Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported.

2-ETHOXYETHANOL

In humans, with oral exposure to the substance various effects have been observed, mostly reversible, such as: digestive and neurological disorders (headache, muscle weakness, agitation, altered consciousness, seizures), as well as cases of skin dryness and hyperemia with cyanosis. In some cases, liver and kidney damage, haematological abnormalities (lymphopenia) and even pancreatitis have been observed (INRS, 2010). Epidemiological studies do not allow an accurate assessment of the effects of the substance since the subjects, in most cases, had been exposed to several substances.

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<u>Interactive effects</u> Information not available <u>ACUTE TOXICITY</u> ATE (Inhalation - vapours) of the mixture: > 20 mg/l ATE (Oral) of the mixture: Not classified (no significant component) ATE (Dermal) of the mixture: >2000 mg/kg ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED> 15EO LD50 (Dermal): 2000 mg/kg rabbit LD50 (Oral): 2000 mg/kg rat LC50 (Inhalation vapours): 1600 mg/l/4h rat 2-DIETHYLAMINOETHANOL LD50 (Dermal): 885 mg/kg coniglio LD50 (Oral): 1320 mg/kg ratto LC50 (Inhalation vapours): 4,6 mg/l ratto ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED 5-10 EO LD50 (Dermal): 2000 mg/kg rabbit LD50 (Oral): 2000 mg/kg rat LC50 (Inhalation vapours): 1600 mg/l/4h rat DIPROPYLENE GLYCOL MONOMETHYL ETHER LD50 (Dermal): > 19020 mg/kg coniglio LD50 (Oral): > 5000 mg/kg ratto LC50 (Inhalation vapours): > 275 ppm/7h ratto RESIN ACIDS AND ROSIN ACIDS, FUMARATED, ESTERS WITH PENTAERYTHRITOL LD50 (Dermal): > 2000 mg/kg rat LD50 (Oral): > 2000 mg/kg rat SODIUM HYDROXIDE LD50 (Dermal): 1350 mg/kg Rat LD50 (Oral): 1350 mg/kg Rat 2-METHYL-2H-ISOTHIAZOL-3-ONE LD50 (Dermal): 218 mg/kg Rabbit male. Method: calculation LD50 (Oral): 183 mg/kg Rat, female LC50 (Inhalation mists/powders): 0,11 mg/l/4h Rat male, female. Method: OECD Test Guideline 403 1,2-BENZISOTHIAZOL-3(2H)-ONE LD50 (Dermal): > 5000 mg/kg bw Rat male, female. Method: OECD Test Guideline 402 LD50 (Oral): 490 mg/kg bw Rat male, female. Method: OECD Test Guideline 401		

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1-METHOXY-2-PROPANOL

LD50 (Dermal):

LD50 (Oral):

LC50 (Inhalation vapours):

13000 mg/kg Rabbit

5300 mg/kg Rat

54,6 mg/l/4h Rat

AMMONIA

LD50 (Oral):

350 mg/kg Rat

2-BUTOXYETHANOL

LD50 (Dermal):

LD50 (Oral):

LC50 (Inhalation vapours):

> 2000 mg/kg bw/day guinea pig(OECD 402)

1200 mg/kg guinea pig (Linea Guida OECD 401)

3 mg/l/4h Rat

2-ETHOXYETHANOL

LD50 (Dermal):

LD50 (Oral):

LC50 (Inhalation vapours):

3300 mg/kg Rat

1746 mg/kg Rat

15,2 mg/l/4h Rat

2-BUTOXYETHANOL
Subacute oral toxicity
Parameter : NOAEL(C) (CAS : 111-76-2)
Route of exposure : Oral
Species: Rat (male)
Effective doses: < 69 mg/kg dw
Exposure time: 90 d
Method: OECD 408
Parameter : NOAEL(C) (CAS : 111-76-2)
Route of exposure : Oral
Species: Rat (female)
Effective doses: < 82 mg/kg dw
Exposure time: 90 d
Method: OECD 408
Subacute skin toxicity
Parameter : NOAEL(C) (CAS : 111-76-2)
Route of exposure: Dermal
Species: Rabbit
Effective doses: > 150 mg/kg bw/day
Exposure time: 90 d
Method: OECD 411
Subacute inhalation toxicity
Parameter: NOAEC (CAS: 111-76-2)
Route of exposure : Inhalation
Species: Rat
Effective doses: 62.5 mg/kg

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

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RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

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

2-BUTOXYETHANOL

Toxicokinetics, metabolism and distribution

This substance is easily absorbed via the following exposure route: Inhalation. Oral. Dermal. Absorption dermal from vapor exposure can be significant.

Dermal absorption from aqueous solutions may be faster than the pure form.

The substance is water soluble and will distribute throughout the body through the bloodstream.

The substance is easily metabolised (half-life in humans ~1 hour).

The main metabolite is butoxyacetic acid (BAA), although smaller quantities of conjugates (glucuronides and sulfates) are also formed.

Most metabolites are excreted via urine.

The elimination of metabolites is slow compared to the formation of metabolites and takes place within hours to the exhibition.

The half-life in humans for the elimination of butoxyacetic acid is ~5 hours

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SECTION 12. Ecological information

12.1. Toxicity

2-DIETHYLAMINOETHANOL

LC50 - for Fish	147 mg/l/96h leuciscus idus melanotus
EC50 - for Crustacea	836 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants	44 mg/l/72h scenedesmus subcapitatus

1-METHOXY-2-PROPANOL

LC50 - for Fish	> 1000 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	> 21100 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants	> 500 mg/l/72h Desmodesmus subcapitatus

2-BUTOXYETHANOL

LC50 - for Fish	1474 mg/l/96h Oncorhynchus mykiss (OECD 203)
EC50 - for Crustacea	1550 mg/l/48h Daphnia magna (OECD 202)
EC50 - for Algae / Aquatic Plants	1840 mg/l/72h Pseudokirchneriella subcapitata (OECD 201)
Chronic NOEC for Fish	> 100 mg/l 21d Brachydanio rerio (OECD 204)
Chronic NOEC for Crustacea	100 mg/l Daphnia magna (OECD 211)

AMMONIA

LC50 - for Fish	47 mg/l/96h Channa punctata
EC50 - for Crustacea	20 mg/l/48h Daphnia magna

1,2-BENZISOTHIAZOL-3(2H)-ONE

LC50 - for Fish	2,15 mg/l/96h Oncorhynchus mykiss. Method: OECD Test Guideline 203
EC50 - for Crustacea	2,9 mg/l/48h Daphnia magna. Method: OECD Test Guideline 202
EC50 - for Algae / Aquatic Plants	0,11 mg/l/72h Pseudokirchneriella subcapitata. Method: OECD Test Guideline 201
Chronic NOEC for Algae / Aquatic Plants	0,0403 mg/l Pseudokirchneriella subcapitata. Method: OECD Test Guideline 201

2-METHYL-2H-ISOTHIAZOL-3-ONE

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER

LC50 - for Fish	> 1000 mg/l/96h poecilia reticulata
EC50 - for Crustacea	1919 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants	> 969 mg/l/72h Selenastrum capricornutum

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MIXTURE OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE (EINECS 247-500-7) AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (EINECS 220-239-6) (MIXTURE OF CMIT/MIT 3:1) LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	14,8 mg/l/96h OECD 203 8 mg/l/48h OECD 202 3,2 mg/l/72h OECD 201
ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED 5-10 EO LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	108 mg/l/96h Danio rerio 51 mg/l/48h Daphnia magna > 10 mg/l/72h Pseudokirchneriella subcapitata
ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED> 15EO LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	108 mg/l/96h Danio rerio 51 mg/l/48h Daphnia magna > 10 mg/l/72h Pseudokirchneriella subcapitata
RESIN ACIDS AND ROSIN ACIDS, FUMARATED, ESTERS WITH PENTAERYTHRITOL LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	400 mg/l/96h 2 g/l/48h 100 mg/l/72h

12.2. Persistence and degradability

2-DIETHYLAMINOETHANOL Rapidly degradable	
1-METHOXY-2-PROPANOL Solubility in water Rapidly degradable	1000 - 10000 mg/l
2-ETHOXYETHANOL Solubility in water Rapidly degradable	1000 - 10000 mg/l
2-BUTOXYETHANOL Rapidly degradable	
SODIUM HYDROXIDE Solubility in water Degradability: information not available	> 10000 mg/l
AMMONIA Degradability: information not available	

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1,2-BENZISOTHIAZOL-3(2H)-ONE Solubility in water 1,288 g/l Rapidly degradable 2-METHYL-2H-ISOTHIAZOL-3-ONE Solubility in water 489 g/l NOT rapidly degradable DIPROPYLENE GLYCOL MONOMETHYL ETHER Solubility in water 1000 mg/l Rapidly degradable MIXTURE OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE (EINECS 247-500-7) AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (EINECS 220-239-6) (MIXTURE OF CMIT/MIT 3:1) Rapidly degradable ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED 5-10 EO Solubility in water 4,7 mg/l Rapidly degradable ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED> 15EO Solubility in water 4,7 mg/l Rapidly degradable RESIN ACIDS AND ROSIN ACIDS, FUMARATED, ESTERS WITH PENTAERYTHRITOL Solubility in water 1 g/l NOT rapidly degradable 12.3. Bioaccumulative potential 2-DIETHYLAMINOETHANOL Partition coefficient: n-octanol/water 0,21 BCF < 6,1 1-METHOXY-2-PROPANOL Partition coefficient: n-octanol/water < 1 2-ETHOXYETHANOL Partition coefficient: n-octanol/water 0,32 2-BUTOXYETHANOL Partition coefficient: n-octanol/water 0,81 Log Kow		

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1,2-BENZISOTHIAZOL-3(2H)-ONE	
Partition coefficient: n-octanol/water	0,7 Log Kow Method: Regulation (EC) n. 440/2008, annex, A.8
BCF	6,62 Method: OECD Test Guideline 305
2-METHYL-2H-ISOTHIAZOL-3-ONE	
Partition coefficient: n-octanol/water	-0,32 Log Kow
DIPROPYLENE GLYCOL MONOMETHYL ETHER	
Partition coefficient: n-octanol/water	0,004
ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED 5-10 EO	
Partition coefficient: n-octanol/water	6,81 25°C
ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED> 15EO	
Partition coefficient: n-octanol/water	6,81 25°C
RESIN ACIDS AND ROSIN ACIDS, FUMARATED, ESTERS WITH PENTAERYTHRITOL	
Partition coefficient: n-octanol/water	3,41
12.4. Mobility in soil	
2-DIETHYLAMINOETHANOL	
Partition coefficient: soil/water	0,777
2-BUTOXYETHANOL	
Partition coefficient: soil/water	0,45
1,2-BENZISOTHIAZOL-3(2H)-ONE	
Partition coefficient: soil/water	0,97
12.5. Results of PBT and vPvB assessment	
On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.	
12.6. Endocrine disrupting properties	
Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.	
12.7. Other adverse effects	
Information not available	

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SECTION 13. Disposal considerations

13.1. Waste treatment methods

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

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

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

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

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Product

Point 3 - 40

Contained substance

Point 75

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

not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3	Flammable liquid, category 3
Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Repr. 1B	Reproductive toxicity, category 1B
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3

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Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
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
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic toxicity, category 4
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H360FD	May damage fertility. May damage the unborn child.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH071	Corrosive to the respiratory tract.
EUH210	Safety data sheet available on request.

Use descriptor system:

ERC	8c	Widespread use leading to inclusion into/onto article (indoor)
ERC	8f	Widespread use leading to inclusion into/onto article (outdoor)
LCS	C	Consumer use
LCS	PW	Widespread use by professional workers
PC	15	Non-metal-surface treatment products
PC	31	Polishes and wax blends
PROC	10	Roller application or brushing
PROC	8a	Transfer of substance or mixture (charging and discharging) at non- dedicated facilities

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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)
- 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

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- 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 / 10 / 11 / 12 / 15 / 16

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SUMI Safe Use of Mixtures Information



AISE_SUMI_PW_8a_1_G

Version 1.1, August 2018

Transfer of product to a container (bottle/bucket/machine)

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

This SUMI applies to professional uses where the product is transferred to or diluted in a container, such as a dispenser, bottle or bucket. This Safe Use Information is based on the AISE_SWED_PW_8a_1_L e AISE_SWED_PW_8a_1_S.

Operational Conditions

Maximum duration	60 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	Wear suitable gloves and eye protection. See section 8 of the SDS of this product for specifications 
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate l'AISE SPERC 8a.1.a.v2: wide dispersive use resulting in release to municipal sewage treatment plant.

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Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	  
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	  
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

This is a document for communicating generic conditions of safe use of a product. It is the responsibility of the formulator to link this SUMI to the SDS of a specific product that he is selling. If a SUMI (or associated SWED) code is mentioned in the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself. Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. This document is provided by A.I.S.E. for general information purposes only. The formulator uses the content of this document at its sole risk. A.I.S.E. disclaims any liability to any person or entity for any loss, damage no matter of what kind (actual, consequential, punitive or otherwise), injury, claim, liability or other cause of any kind or character based upon or resulting from the use (even partly) of the content of this document.

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SUMI

Safe Use of Mixtures

Information



AISE_SUMI_PW_10_2_G
Version 1.1, August 2018

Professional uses; Brushing after trigger spraying or brushing with tools

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

This SUMI applies to professional uses where the product is brushed on a surface, with limited exposure to the hands, either after trigger spraying or through the use of tools such as a mop. This Safe Use Information is based on the **AISE_SWED_PW_10_2**.

Operational Conditions

Maximum duration	480 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	Wear suitable gloves and eye protection. See section 8 of the SDS of this product for specifications.  
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate l'AISE SPERC 8a.1.a.v2 may apply : wide dispersive use resulting in release to municipal sewage treatment plant.

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Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

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WORKING INSTRUCTIONS SHEET

The purpose of this sheet is to provide the personnel carrying out the cleaning operations with instructions for an appropriate and safe use of the products and for the correct management of emergency situations.

Operation planned	Transfer of substance or mixture (charging and discharging) at non- dedicated facilities [PROC8a]; Roller application or brushing [PROC10]
Product name	B-DURALBRILL
Risks of the product as it is	H319 Causes serious eye irritation. H317 May cause an allergic skin reaction..
Handling of the product as it is	Handle the product after consulting all the other sections of this safety data sheet. Avoid the dispersion of the product in the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering eating areas.
PPE required for the product as it is (transfer, concentrated use)	Protect hands with category III work gloves (see standard EN 374). Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344) Wear airtight protective goggles (see standard EN 166).
In case of emergency (accidents involving exposure to the product)	Inform the client immediately. Immediately notify the employer. Contact the Anti-Poison Center listed in section section 1.4 SDS
In case of accidental spillage of large quantities In concentrated form	Wear gloves, goggles and protective clothing (for specifics refer to section 8.2. Of the SDS). Suck up the leaked product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking the sect. 10 of the SDS. Absorb the remainder with inert absorbent material. Provide sufficient ventilation of the place affected by the leak. The disposal of contaminated material must be carried out in accordance with the provisions of section 13 of the SDS.
Product storage	Keep only in the original container. Keep the containers closed, in a well-ventilated place, away from direct sunlight. Keep the containers away from any incompatible materials, checking the sect. 10 of the SDS
In case of accidents, emergencies or fire in the work area	Immediately notify the client, the employer. Follow the instructions for emergencies. Follow the instructions in sect. 5 of the SDS