

**BELLINZONI S.R.L.**

Revision nr. 7

Dated 23/11/2020

Printed on 07/01/2021

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Replaced revision:6 (Dated: 07/05/2018)

DURALBRILL

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: 076BDURALBR - 076BDURALBR001 - 076BDURALBR005 - 076BDURALBR025 - 076BDURALBR120
Product name: DURALBRILL
UFI: DC90-40DE-4003-S0UQ

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
Polishing	PC: 31. LCS: IS.	PC: 31. LCS: PW.	-

1.3. Details of the supplier of the safety data sheet

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

e-mail address of the competent person

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

1.4. Emergency telephone number

For urgent inquiries refer to

E.U.: Centro Antiveleni-Ospedale di Niguarda-Milano-Tel. +39 0266101029
CAVp"Osp.Pediatrico Bambino Gesù" Piazza Sant'Onofrio RM, 4; TEL +39 0668593726
Az.Osp.Univ.Foggia V.le Luigi Pinto, 1, FG; TEL +39 0881732326
Az. Osp. " A. Cardarelli" Via A. Cardarelli, 9, NA; TEL +39 081 7472870
CAV Policlinico "Umberto I" V.le del Policlinico, 155, RM; TEL +39 06 49978000
CAV Policlinico "A. Gemelli" Largo Agostino Gemelli, 8, RM; TEL +39 06 3054343
Az. Osp."Careggi" U.O.Tossicologia Medica Largo Brambilla,3,FI; TEL +39 0557947819
CAV centro Naz.di Informazione Tossicologica Via S.Maugeri,10,PV; TEL +39 038224444
Azienda Ospedaliera Papa Giovanni XXIII Piazza OMS, 1, BG; TEL 800883300

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 2015/830. 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.

DURALBRILL

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:

H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
EUH210 Safety data sheet available on request.
EUH208 Contains: 1,2-BENZISOTHIAZOL-3(2H)-ONE; 1,2-BENZISOTHIAZOLIN-3-ONE, 2-METHYL-4-ISOTHIAZOLIN-3-ONE
May produce an allergic reaction.

Precautionary statements:

P264 Wash your hands thoroughly with water after use.
P280 Wear protective gloves / eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.

Contains: 2-METHYL-4-ISOTHIAZOLIN-3-ONE
COLOPHONIC ACIDS, SMOKED, ESTERS WITH PENTAERITRITOL
1,2-BENZISOTHIAZOL-3(2H)-ONE; 1,2-BENZISOTHIAZOLIN-3-ONE

Ingredients according to Regulation (EC) No. 648/2004

Less than 5% non-ionic surfactants

preservatives

Preservation agents: 1,2-benzisothiazol-3 (2H) -one; 1,2-benzisothiazolin3-one; 2-methyl-4-isothiazolin-3-one

2.3. Other hazardsOn the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.**SECTION 3. Composition/information on ingredients**

DURALBRILL**3.1. Substances**

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
COLOPHONIC ACIDS, SMOKED, ESTERS WITH PENTAERITRITOL CAS 94581-15-4 EC 305-514-1 INDEX - Reg. no. 01-2119485895-17	$2 \leq x < 3$	Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Chronic 4 H413
POLY(OXY-1,2-ETHANEDIYL), A-ISODECYL-Ω-HYDROXY- CAS 61827-42-7 EC 612-519-5 INDEX -	$1 \leq x < 2$	Eye Dam. 1 H318
Alcohols, C12-15, branched and linear, 5-15 EO CAS 106232-83-1 EC INDEX -	$0,407 \leq x < 0,707$	Acute Tox. 4 H302, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1
2-DIETHYLAMINOETHANOL CAS 100-37-8 EC 202-845-2 INDEX 603-048-00-6 Reg. no. 01-2119488937-14	$0,1 \leq x < 0,4$	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
2-BUTOXYETHANOL CAS 111-76-2 EC 203-905-0 INDEX 603-014-00-0 Reg. no. 01-2119475108-36	$0 \leq x < 0,05$	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315
AMMONIA CAS 1336-21-6 EC 215-647-6 INDEX 007-001-01-2 Reg. no. 01-2119982985-14-0000	$0 \leq x < 0,05$	Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Acute 1 H400 M=1, Classification note/notes according to Annex VI to the CLP Regulation: B
2-METHYL-4-ISOTHIAZOLIN-3-ONE CAS 2682-20-4	$0,0015 \leq x < 0,06$	Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1



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EC 220-239-6

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Reg. no. 01-2120764690-50

**1,2-BENZISOTHIAZOL-3(2H)-ONE;
1,2-BENZISOTHIAZOLIN-3-ONE**

CAS 2634-33-5

$0 \leq x < 0,05$

Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317,
Aquatic Acute 1 H400 M=1

EC 220-120-9

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Reg. no. 01-2120761540-60

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

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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

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:



DURALBRILL

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CZE	Česká Republika	Nařízení vlády č. 246/2018 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	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
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 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018, 2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SWE	Sverige	Hygieniska gränsvärden, AFS 2018:1
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	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 2020

COLOPHONIC ACIDS, SMOKED, ESTERS WITH PENTAERITRITOL

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

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				1.046 mg/kg/d				
Inhalation							10 mg/m3	
Skin				1.046 mg/kg bw/d				2,09 mg/kg bw/d

2-DIETHYLAMINOETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP		2			
TLV-ACGIH			9,6			
Predicted no-effect concentration - PNEC						
Normal value in fresh water				44		mg/l
Normal value in marine water				44		mg/l
Normal value for fresh water sediment				475		mg/kg

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Normal value for marine water sediment	475	mg/kg
Normal value for water, intermittent release	44	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	69	mg/kg

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation							1.07 mg/m3	7.34 mg/m3
Skin							NPI	1 mg/kg/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	
TLV	BGR	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 Hinweis
TLV	DNK	98	20			SKIN E
VLA	ESP	98	20	245	50	SKIN
VLEP	FRA	49	10	246	50	SKIN
TLV	GRC	120	25			
VLEP	ITA	98	20	246	50	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
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	88	mg/l
Normal value in marine water	88	mg/l
Normal value for fresh water sediment	346	mg/kg

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Normal value for marine water sediment	346	mg/kg
Normal value for water, intermittent release	91	mg/l
Normal value of STP microorganisms	463	mg/l
Normal value for the food chain (secondary poisoning)	2	g/kg
Normal value for the terrestrial compartment	233	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	26.7 mg/kg bw/d			6.3 mg/kg bw/d				
Inhalation	147 mg/m3	426 mg/m3		59 mg/m3	246 mg/m3	1091 mg/m3		98 mg/m3
Skin	89 mg/kg bw/d			75 mg/kg bw/d		89 mg/kg bw/d		125 mg/kg bw/d

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

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation				1.2 mg/m3		6.81		6.81 mg/m3
Skin				345 µg/kg bw/d				966 µg/kg bw/d

2-METHYL-4-ISOTHIAZOLIN-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

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation	21 µg/m³		43 µg/m³		43 µg/m³		21 µg/m³	
Skin		53 mg/kg bw/d		27 mg/kg bw/d				

Legend:

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(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.

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 (see standard EN 374).

The following should be considered when choosing work glove material: 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.

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**

Appearance	liquid
Colour	beige
Odour	characteristic
Odour threshold	Not available
pH	9
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	> 60 °C

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Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1,05 g/cm ³
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not applicable
Explosive properties	not explosive
Oxidising properties	non oxidizing

9.2. Other information

VOC (Directive 2010/75/EC) : 3,46 % - 36,35 g/litre

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-BUTOXYETHANOL

Decomposes under the effect of heat.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

AMMONIA

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

2-BUTOXYETHANOL

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

10.4. Conditions to avoid

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

2-BUTOXYETHANOL

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

AMMONIA

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

10.6. Hazardous decomposition products

AMMONIA

May develop: nitric oxide.

2-BUTOXYETHANOL

May develop: hydrogen.

SECTION 11. Toxicological information**11.1. Information on toxicological effects**Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:
> 20 mg/l



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ATE (Oral) of the mixture:
Not classified (no significant component)
ATE (Dermal) of the mixture:
>2000 mg/kg

2-DIETHYLAMINOETHANOL

LD50 (Oral) 1320 mg/kg ratto

LD50 (Dermal) 885 mg/kg coniglio

LC50 (Inhalation) 4,6 mg/l ratto

Alcohols, C12-15, branched and linear, 5-15 EO

LD50 (Oral) > 300 mg/kg ratto

2-BUTOXYETHANOL

LD50 (Oral) 1746 mg/kg bw/day ratto maschio (OCSE 401)

LD50 (Dermal) > 2000 mg/kg bw/day ratto (OECD 402)

LC50 (Inhalation) 2,2 mg/l/4h Rat

AMMONIA

LD50 (Oral) 350 mg/kg Rat

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

LD50 (Oral) 490 mg/kg bw ratto

LD50 (Dermal) 2000 mg/kg bw ratto

2-METHYL-4-ISOTHIAZOLIN-3-ONE

LD50 (Oral) 120 mg/kg bw

LD50 (Dermal) 242 mg/kg bw

LC50 (Inhalation) 340 µg/m³

COLOPHONIC ACIDS, SMOKED, ESTERS WITH PENTAERITRITOL

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LD50 (Oral) > 2000 mg/kg rat

LD50 (Dermal) > 2000 mg/kg rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

May produce an allergic reaction. Contains: 1,2-BENZISOTHIAZOL-3(2H)-ONE; 1,2-BENZISOTHIAZOLIN-3-ONE
2-METHYL-4-ISOTHIAZOLIN-3-ONE

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

SECTION 12. Ecological information**12.1. Toxicity**

2-DIETHYLAMINOETHANOL

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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
Alcohols, C12-15, branched and linear, 5-15	
EO	
LC50 - for Fish	< 10 mg/l/96h carassius auratus
EC50 - for Crustacea	< 10 mg/l/48h daphnie
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	911 mg/l/72h Pseudokirchneriella subcapitata (OECD 201)
Chronic NOEC for Fish	> 100 mg/l 21d Brachydanio rerio (OECD 204)
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; 1,2-BENZISOTHIAZOLIN-3-ONE	
LC50 - for Fish	2,15 mg/l/4d
EC50 - for Crustacea	29 mg/l/48h
EC50 - for Algae / Aquatic Plants	110 µg/l
Chronic NOEC for Algae / Aquatic Plants	40,3 µg/l
2-METHYL-4-ISOTHIAZOLIN-3-ONE	
LC50 - for Fish	4,77 mg/l/96h freshwater fish
EC50 - for Crustacea	934 µg/l/48h freshwater invertebrates
EC50 - for Algae / Aquatic Plants	103 µg/l freshwater algae
EC10 for Algae / Aquatic Plants	50,3 µg/l freshwater algae
Chronic NOEC for Fish	4,93 mg/l
Chronic NOEC for Crustacea	44,2 µg/l freshwater invertebrates
Chronic NOEC for Algae / Aquatic Plants	50,3 µg/l freshwater algae
COLOPHONIC ACIDS, SMOKED, ESTERS WITH PENTAERITRITOL	
LC50 - for Fish	400 mg/l/96h
EC50 - for Crustacea	2 g/l/48h
EC50 - for Algae / Aquatic Plants	100 mg/l/72h

12.2. Persistence and degradability

2-DIETHYLAMINOETHANOL

Rapidly degradable

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Alcohols, C12-15, branched and linear, 5-15

EO

Rapidly degradable

2-BUTOXYETHANOL

Rapidly degradable

AMMONIA

Degradability: information not available

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

Solubility in water

1,288 g/l

NOT rapidly degradable

2-METHYL-4-ISOTHIAZOLIN-3-ONE

Solubility in water

489 g/l

Degradability: information not available

COLOPHONIC ACIDS, SMOKED, ESTERS WITH PENTAERITRITOL

Solubility in water

1 g/l

12.3. Bioaccumulative potential

2-DIETHYLAMINOETHANOL

Partition coefficient: n-octanol/water

0,21

BCF

< 6,1

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water

0,81

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

Partition coefficient: n-octanol/water

0,7

BCF

6,62

2-METHYL-4-ISOTHIAZOLIN-3-ONE

Partition coefficient: n-octanol/water

-0,486

COLOPHONIC ACIDS, SMOKED, ESTERS WITH PENTAERITRITOL

Partition coefficient: n-octanol/water

3,41

12.4. Mobility in soil

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2-DIETHYLAMINOETHANOL

Partition coefficient: soil/water 0,777

1,2-BENZISOTHIAZOL-3(2H)-ONE; 1,2-BENZISOTHIAZOLIN-3-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. Other adverse effects

Information not available

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

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

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

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

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable



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14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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/EC: None

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

Product

Point 3 - 40

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 (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:



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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.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

15.2. Chemical safety assessment

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

2-BUTOXYETHANOL

SECTION 16. Other information

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

Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
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
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 4	Hazardous to the aquatic environment, chronic toxicity, category 4
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.

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H332	Harmful if inhaled.
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH210	Safety data sheet available on request.

Use descriptor system:

LCS	IS	Use at industrial sites
LCS	PW	Widespread use by professional workers
PC	31	Polishes and wax blends

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: 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: EC Regulation 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 STEL: Short-term exposure limit
- TWA: Time-weighted average 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) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament



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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) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)

- The Merck Index. - 10th Edition

- Handling Chemical Safety

- INRS - Fiche Toxicologique (toxicological sheet)

- Patty - Industrial Hygiene and Toxicology

- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

- IFA GESTIS website

- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 13 / 15 / 16.