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Safety Data Sheet

According to Annex II to REACH - Regulation 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

ECOSMALTO UNIVERSALE LUCIDO Product name

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

Intended use Water based, acrylic, gloss enamel for interiors and exteriors.

Uses advised against Uses other than those indicated

1.3. Details of the supplier of the safety data sheet

OIKOS S.P.A. A SOCIO UNICO Name

Full address Via Cherubini 2

District and Country 47043 Gatteo Mare (FC)

Italia

0547 681412 Tel. 0547 681430 Fax

e-mail address of the competent person

responsible for the Safety Data Sheet certificazioniprodotti@oikos-group.it

1.4. Emergency telephone number

NHS National Health Service 111 For urgent inquiries refer to

OIKOS S.P.A. a socio unico Company emergency number: 0547 681412 Technical support - Monday to Friday from 8.00-13.00; 13:30 to 16:30

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

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Hazardous to the aquatic environment, chronic H412 Harmful to aquatic life with long lasting effects.

toxicity, category 3

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

Hazard pictograms:

Signal words:

Hazard statements:

H412 Harmful to aquatic life with long lasting effects. **EUH208** 1,2-benzisothiazol-3(2H)-one

May produce an allergic reaction.

Precautionary statements:

VOC (Directive 2004/42/EC):

Interior / exterior trim and cladding paints for wood, metal or plastic.

VOC given in g/litre of product in a ready-to-use condition : 95,00 Limit value: 130,00



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SECTION 2. Hazards identification

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

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2-butoxyethanol

CAS 111-76-2 0,374 \leq x < 0,38 Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC 203-905-0 LD50 Oral: 1200 mg/l/4h, STA Inhalation mists/powders: 1,5 mg/l INDEX 603-014-00-0

INDEX 603-014-00-0 REACH Reg. 01-2119475108-36

Ethane-1,2-diol

CAS 107-21-1 0,054 ≤ x < 0,06 Acute Tox. 4 H302, STOT RE 2 H373

EC 203-473-3 STA Oral: 500 mg/kg

INDEX 603-027-00-1 REACH Reg. 01-2119456816-28

2-(2-butoxyethoxy)ethanol

CAS 112-34-5 $0,054 \le x < 0,06$ Eye Irrit. 2 H319

EC 203-961-6 INDEX 603-096-00-8 REACH Reg. 01-2119475104-44 1,2-benzisothiazol-3(2H)-one

CAS 2634-33-5 0,014 ≤ x < 0,02 Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315,

Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

EC 220-120-9 Skin Sens. 1 H317: ≥ 0,05%

INDEX 613-088-00-6 LD50 Oral: >490 mg/kg bw, STA Inhalation mists/powders: 0,051 mg/l, STA

Inhalation vapours: 0,501 mg/l

REACH Reg. 01-2120761540-60

CAS 7783-90-6 0.00289 ≤ x < 0.00399 Aquatic Acute 1 H400 M=1000, Aquatic Chronic 1 H410 M=100

EC 232-033-3

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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

Not specifically necessary. Observance of good industrial hygiene is recommended.

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



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SECTION 5. Firefighting measures .../>>

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. 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

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. 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:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
		, ,
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
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
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
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.



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SECTION 8. Exposure controls/personal protection

TLV-ACGIH ACGIH 2021

				2-(2-butoxye	thoxy)ethanol				
Threshold Limit Va	alue								
Туре	Country	TWA/8h		STEL/15n	nin	Remarks / O	bservations		
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	67	10	100,5 (C)	15 (C)		Hinweis		
MAK	DEU	67	10	100,5	15		Hinweis		
VLA	ESP	67,5	10	101,2	15				
VLEP	FRA	68	10	101,2	15				
VLEP	ITA	67,5	10	101,2	15				
NDS/NDSCh	POL	67		100					
WEL	GBR	67,5	10	101,2	15				
OEL	EU	67,5	10	101,2	15				
TLV-ACGIH		66	10			INHAL			
Predicted no-effect									
Normal value ir	n fresh water	٢					1,1	mg/l	
Normal value in							0,11	mg/l	
Normal value for	or fresh wate	er sediment					4,4	mg/kg	
Normal value for	or marine wa	ater sedimen	t				0,44	mg/kg	
Normal value o							200	mg/l	
Normal value for							0,32	mg/kg	
Health - Derived n	o-effect leve	I - DNEL / DI	MEL						
	Effe	ects on consi	umers			Effects on wor	kers		
Route of expos	ure Acı	ute Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	,	stemic	local	systemic	local	systemic	local	systemic
Oral		NP	1	NPI	5				
					mg/kg bw/d				
Inhalation	60,	7 NP	1	40,5	40,5	101,2	NPI	67,5	67,5
	mg.	/m3		mg/m3	mg/m3	mg/m3		mg/m3	mg/m3
Skin		NP	1	NPI	50	NPI	NPI	NPI	83
					mg/kg bw/d				mg/kg
									bw/d

				0.1.1					
	li.e.			2-buto	xyethanol				
Threshold Limit Va		T14/4/01		OTE: 45			o		
Туре	Country	TWA/8h		STEL/15		Remarks / C	Observations		
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	49	10	98	20				
MAK	DEU	49	10	98	20	SKIN	Hinweis		
VLA	ESP	98	20	245	50	SKIN			
VLEP	FRA	49	10	246	50	SKIN			
VLEP	ITA	98	20	246	50	SKIN			
NDS/NDSCh	POL	98		200		SKIN			
WEL	GBR	123	25	246	50	SKIN			
OEL	EU	98	20	246	50	SKIN			
Predicted no-effect	t concentration	on - PNEC							
Normal value in	n fresh water						8,8	mg/l	
Normal value in	n marine wate	er					26,4	mg/l	
Normal value for	or fresh wate	r sediment					34,6	mg/kg	
Normal value for	or marine wa	ter sedimen	t				3,46	mg/kg	
Normal value for	or water, inte	rmittent rele	ase				0,88	mg/l	
Normal value of	f STP microo	organisms					463	mg/l	
Normal value for	or the terresti	rial compart	ment				2,33	mg/kg	
Health - Derived no								0 0	
	Effe	cts on cons	umers			Effects on wo	rkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
·	loca	ıl sy:	stemic	local	systemic	local	systemic	local	systemic
Oral		26			6.3		•		,
			/ /kg bw/d		mg/kg bw/d				
Inhalation	147			NPI	59	246	1091	NPI	98
	mg/	m3 mc	ı/m3		mg/m3	mg/m3	mg/m3		mg/m3
Skin		89	· -	NPI	75	J	89	NPI	125
		mo	/kg bw/d		mg/kg bw/d		mg/kg		mg/kg
					5 5		bw/d		bw/d



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SECTION 8. Exposure controls/personal protection

				Ethan	e-1,2-diol				
Γhreshold Limit Va	alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	26	10	52	20	SKIN			
MAK	DEU	26	10	52	20	SKIN			
VLA	ESP	52	20	104	40	SKIN			
VLEP	FRA	52	20	104	40	SKIN			
VLEP	ITA	52	20	104	40	SKIN			
NDS/NDSCh	POL	15		50		SKIN			
WEL	GBR	52	20	104	40	SKIN			
OEL	EU	52	20	104	40	SKIN			
TLV-ACGIH			25		50				
TLV-ACGIH				10		INHAL			
Predicted no-effec	t concentration	on - PNEC							
Normal value ir	n fresh water						10	mg/l	
Normal value ir	n marine wate	er					1	mg/l	
Normal value for	or fresh wate	r sediment					37	mg/kg/d	
Normal value for	or marine wa	ter sediment	<u>t</u>				3,7	mg/kg/d	
Normal value for	or water, inte	rmittent relea	ase				10	mg/l	
Normal value o	f STP micro	organisms					199,5	mg/l	
Normal value for	or the terresti	rial compartr	nent				1,53	mg/kg/d	
Health - Derived n	o-effect level	- DNEL / DI	MEL					_	
	Effe	cts on consu	umers			Effects on we	orkers		
Route of expos	ure Acu	te Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	ıl sys	stemic	local	systemic	local	systemic	local	systemic
Inhalation		•		7	-		•	35	-
				mg/m3				mg/m3	
Skin				-	53			106	106
					mg/kg bw/d				mg/kg
					-				bw/d

			1,2-benziso	thiazol-3(2H)-on	е			
Predicted no-effect cond	entration - F	PNEC						
Normal value in fresh	n water					4,03	μg/l	
Normal value in mari	ne water					403	ng/l	
Normal value for fres	h water sed	ment				49,9	μg/kg	
Normal value for mar	ine water se	diment				4,99	μg/kg	
Normal value of STP	microorgan	isms				1,03	mg/l	
Health - Derived no-effe	ct level - DN	EL / DMEL					Ŭ	
	Effects o	n consumers			Effects on v	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation		•		1,2		•		6,81
				mg/m3				mg/m3
Skin				345				966
				μg/kg bw/d				μg/kg
								hw/d

Legend:

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

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.

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 I 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



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SECTION 8. Exposure controls/personal protection

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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

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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance pasty liquid

Colour White and the colour chart

Odour

Melting point / freezing point Initial boiling point Flammability

Lower explosive limit Upper explosive limit

Flash point Auto-ignition temperature

Properties

Kinematic viscosity Dynamic viscosity Solubility

Partition coefficient: n-octanol/water Vapour pressure

Density and/or relative density Relative vapour density

Particle characteristics

Value

shades Feeble

Not available 100 °C not flammable Not applicable Not applicable

Not applicable Not applicable

8-10

Not available 2500 cps

Mixable in water Not available Not available 1 23

Not available Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2004/42/EC): 4,78 % - 58,81 a/litre VOC (volatile carbon) 1,29 % - 15,92 g/litre

Explosive properties not applicable Oxidising properties not applicable

SECTION 10. Stability and reactivity

10.1. Reactivity

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

2-butoxyethanol

Decomposes under the effect of heat.

Fthane-1 2-diol

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

10.2. Chemical stability

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

@EPY 11.1.2 - SDS 1004.14



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SECTION 10. Stability and reactivity

10.3. Possibility of hazardous reactions

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

2-(2-butoxyethoxy)ethanol

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

2-butoxvethanol

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

.../>>

Ethane-1,2-diol

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

10.4. Conditions to avoid

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

2-(2-butoxyethoxy)ethanol

Avoid exposure to: air.

2-butoxyethanol

Avoid exposure to: sources of heat,naked flames.

Ethane-1,2-diol

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

2-(2-butoxyethoxy)ethanol

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

10.6. Hazardous decomposition products

2-(2-butoxyethoxy)ethanol

May develop: hydrogen.

2-butoxyethanol

May develop: hydrogen.

Ethane-1,2-diol

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

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

2-(2-butoxyethoxy)ethanol

WORKERS: inhalation; contact with the skin.

Ethane-1,2-diol

WORKERS: inhalation; contact with the skin.

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

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

2-(2-butoxvethoxv)ethanol

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

Ethane-1,2-diol

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

Interactive effects



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SECTION 11. Toxicological information

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Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

2-(2-butoxyethoxy)ethanol

LD50 (Dermal): 2764 mg/kg Rabbit LD50 (Oral): 5530 mg/kg Mouse

2-butoxyethanol

LD50 (Óral): 1200 mg/kg Guinea pig LC50 (Inhalation vapours): 2,2 mg/l/4h Rat

Ethane-1,2-diol

 LD50 (Dermal):
 3500 mg/kg Rat

 LD50 (Oral):
 > 7712 mg/kg Rat

 LC50 (Inhalation vapours):
 2,5 mg/l/4h

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

LD50 (Dermal): 2000 mg/kg bw (rat) LD50 (Oral): > 490 mg/kg bw 490-670 (rat)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

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

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Ethane-1,2-diol

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

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available



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SECTION 11. Toxicological information

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

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

SECTION 12. Ecological information

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

12.1. Toxicity

2-(2-butoxyethoxy)ethanol

 LC50 - for Fish
 1300 mg/l

 EC50 - for Crustacea
 100 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 100 mg/l/96h

2-butoxyethanol

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

EC10 for Algae / Aquatic Plants

EC10 for Algae / Aquatic Plants

Chronic NOEC for Fish

Chronic NOEC for Crustacea

Chronic NOEC for Algae / Aquatic Plants

Chronic NOEC for Algae / Aquatic Plants

EC50 - for Crustacea

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

Ethane-1,2-diol

LC50 - for Fish 72,86 mg/l/96h
EC50 - for Crustacea 100 mg/l/48h
Chronic NOEC for Fish 32000 mg/l 7 days
Chronic NOEC for Crustacea 1000 mg/l 23 days
Chronic NOEC for Algae / Aquatic Plants 100 mg/l 72 h



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

LC50 - for Fish > 2,15 mg/l 2,15-22 EC50 - for Crustacea > 2,9 mg/l 2,9-2,94 EC50 - for Algae / Aquatic Plants > 70 μg/l 70-150 Chronic NOEC for Algae / Aquatic Plants > 40,3 μg/l 40-55

12.2. Persistence and degradability

2-(2-butoxyethoxy)ethanol

Solubility in water 955 g/l

Rapidly degradable

2-butoxyethanol

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

Ethane-1,2-diol

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

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

Rapidly degradable

12.3. Bioaccumulative potential

2-(2-butoxyethoxy)ethanol

Partition coefficient: n-octanol/water 1 BCF < 100

2-butoxyethanol

Partition coefficient: n-octanol/water 0,81

Ethane-1,2-diol

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

12.4. Mobility in soil

Information not available

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 ≥ than 0,1%.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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.



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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

Seveso Category - Directive 2012/18/EU:

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

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

None

Point Contained substance Point

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 ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

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

Substances subject to the Rotterdam Convention:

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available



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SECTION 15. Regulatory information ... / >>

VOC (Directive 2004/42/EC):

Interior / exterior trim and cladding paints for wood, metal or plastic.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 1: Low hazard to waters

15.2. Chemical safety assessment

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

SECTION 16. Other information

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

Acute Tox. 2 Acute toxicity, category 2
Acute Tox. 4 Acute toxicity, category 4

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Dam. 1 Serious eye damage, category 1
Skin Irrit. 2 Skin irritation, category 2
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 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H330 Fatal if inhaled. H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

H318 Causes serious eye damage. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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



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SECTION 16. Other information

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

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

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



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Safety Data Sheet

According to Annex II to REACH - Regulation 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

ECOSMALTO UNIVERSALE OPACO Product name

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

Intended use Water based, acrylic, matt enamel for interiors and exteriors.

Uses advised against Uses other than those indicated

1.3. Details of the supplier of the safety data sheet

OIKOS S.P.A. A SOCIO UNICO Name

Full address Via Cherubini 2

District and Country 47043 Gatteo Mare (FC)

Italia

0547 681412 Tel. 0547 681430 Fax

e-mail address of the competent person

responsible for the Safety Data Sheet certificazioniprodotti@oikos-group.it

1.4. Emergency telephone number

NHS National Health Service 111 For urgent inquiries refer to

OIKOS S.P.A. a socio unico Company emergency number: 0547 681412 Technical support - Monday to Friday from 8.00-13.00; 13:30 to 16:30

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

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Hazardous to the aquatic environment, chronic H412 Harmful to aquatic life with long lasting effects.

toxicity, category 3

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

Hazard pictograms:

Signal words:

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

EUH208 Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and

2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

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

May produce an allergic reaction.

Precautionary statements:

Dispose of contents / container in accordance with local regulation. P501

P273 Avoid release to the environment.



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SECTION 2. Hazards identification .../>>

VOC (Directive 2004/42/EC):

Interior / exterior trim and cladding paints for wood, metal or plastic.

VOC given in g/litre of product in a ready-to-use condition: 95,00 I imit value: 130.00

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0.1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification Classification (EC) 1272/2008 (CLP) x = Conc. %

(2-methoxymethylethoxy)propanol

CAS 34590-94-8 $0.5 \le x < 1.5$ Substance with a community workplace exposure limit.

252-104-2 EC

INDEX

REACH Reg. 01-2119450011-60

2-(2-butoxyethoxy)ethanol

 $0,209 \le x < 0,215$ Eye Irrit. 2 H319 CAS 112-34-5

EC 203-961-6 **INDEX** 603-096-00-8 REACH Reg. 01-2119475104-44 1,2-benzisothiazol-3(2H)-one

CAS 2634-33-5 $0.014 \le x < 0.02$ Acute Tox. 2 H330. Acute Tox. 4 H302. Eve Dam. 1 H318. Skin Irrit. 2 H315.

Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

EC 220-120-9 Skin Sens. 1 H317: ≥ 0,05%

INDEX LD50 Oral: >490 mg/kg bw, STA Inhalation mists/powders: 0,051 mg/l, STA 613-088-00-6

Inhalation vapours: 0,501 mg/l

REACH Reg. 01-2120761540-60

Ammonia

CAS 1336-21-6 $0.014 \le x < 0.02$ Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1,

Classification note according to Annex VI to the CLP Regulation: B

EC 215-647-6 INDEX 007-001-01-2 PHOSPHORIC ACID

7664-38-2 $0.0057 \le x < 0.0068$ Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318, Classification note CAS

according to Annex VI to the CLP Regulation: B

FC 231-633-2 Skin Corr. 1B H314: ≥ 25%, Skin Irrit. 2 H315: ≥ 10%, Eye Dam. 1 H318: ≥

25%, Eye Irrit. 2 H319: ≥ 10%

INDEX 015-011-00-6

7783-90-6 0,00289 ≤ x < 0,00399 Aquatic Acute 1 H400 M=1000, Aquatic Chronic 1 H410 M=100 CAS

232-033-3

INDEX

CAS

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]

(3:1)

0,00124 ≤ x < 0,00129 Acute Tox. 1 H330, Acute Tox. 2 H310, Acute Tox. 3 H301, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100,

Aquatic Chronic 1 H410 M=100

Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1 H317: ≥ EC 611-341-5

0,0015%, Eye Irrit. 2 H319: ≥ 0,6%

INDFX 613-167-00-5 LD50 Oral: >64 mg/kg bw, STA Dermal: 50,001 mg/kg, STA Inhalation

vapours: 0,05 mg/l

01-2120764691-48 REACH Reg.

55965-84-9

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



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SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

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

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

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

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13

6.4. Reference to other sections

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



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SECTION 7. Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
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
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
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 2021

				Am	nmonia	
Threshold Limi	it Value					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	14	20	36	50	

				PHOSPH	HORIC ACI	ID
Threshold Limit Va	llue					
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	2		4 (C)		INHAL
MAK	DEU	2		4		INHAL
VLA	ESP	1		2		
VLEP	FRA	1	0,2	2	0,5	
VLEP	ITA	1		2		
NDS/NDSCh	POL	1		2		
WEL	GBR	1		2		
OEL	EU	1		2		
TLV-ACGIH		1		3		



.../>>

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SECTION 8. Exposure controls/personal protection

			(2	2-methoxymethy	/lethoxy)propar	nol			
Threshold Limit Val	lue		,						
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Obs	servations		
	-	mg/m3	ppm	mg/m3	ppm				
AGW	DEU	310	50	310	50				
MAK	DEU	310	50	310	50				
VLA	ESP	308	50			SKIN			
VLEP	FRA	308	50			SKIN			
VLEP	ITA	308	50			SKIN			
NDS/NDSCh	POL	240		480		SKIN			
WEL	GBR	308	50			SKIN			
OEL	EU	308	50			SKIN			
Predicted no-effect	concentration	n - PNEC							
Normal value in	fresh water						19	mg/l	
Normal value in	marine water	-					1,9	mg/l	
Normal value fo	r fresh water	sediment					70,2	mg/kg	
Normal value fo	r marine wate	er sediment					7,02	mg/kg	
Normal value fo	r water, interr	nittent relea	ise				190	mg/l	
Normal value of	STP microor	ganisms					4168	mg/l	
Normal value fo	r the terrestria	al compartm	nent				2,74	mg/kg	
Health - Derived no	-effect level	DNEL / DN	/IEL						
	Effec	ts on consu	mers			Effects on worke	ers		
Route of exposu	ure Acute	e Acu	ıte	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	sys	temic	local	systemic	local	systemic	local	systemic
Oral				VND	36				
					mg/kg bw/d				
Inhalation				VND	37,2			VND	308
					mg/m3				mg/m3
Skin				VND	121			VND	283
					mg/kg bw/d				mg/kg
									bw/d

				2-(2-butoxye	thoxy)ethanol				
hreshold Limit Va	alue								
Type	Country	TWA/8h		STEL/15n	nin	Remarks / Ol	oservations		
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	67	10	100,5 (C)	15 (C)		Hinweis		
MAK	DEU	67	10	100,5	15		Hinweis		
VLA	ESP	67,5	10	101,2	15				
VLEP	FRA	68	10	101,2	15				
VLEP	ITA	67,5	10	101,2	15				
NDS/NDSCh	POL	67		100					
WEL	GBR	67,5	10	101,2	15				
OEL	EU	67,5	10	101,2	15				
TLV-ACGIH		66	10			INHAL			
redicted no-effec	t concentrati	ion - PNEC							
Normal value ir	n fresh water	r					1,1	mg/l	
Normal value ir	n marine wat	ter					0,11	mg/l	
Normal value for	or fresh wate	er sediment					4,4	mg/kg	
Normal value for	or marine wa	iter sediment					0,44	mg/kg	
Normal value o	f STP micro	organisms					200	mg/l	
Normal value for	or the terrest	trial compartn	nent				0,32	mg/kg	
lealth - Derived n	o-effect leve	I - DNEL / DN	ΛEL						
	Effe	ects on consu	ımers			Effects on work	cers		
Route of expos	ure Acı	ute Acu	ıte	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sys	temic	local	systemic	local	systemic	local	systemic
Oral		NP		NPI	5				
					mg/kg bw/d				
Inhalation	60,	7 NP		40,5	40,5	101,2	NPI	67,5	67,5
	mg.	/m3		mg/m3	mg/m3	mg/m3		mg/m3	mg/m3
Skin		NP		NPI	50	NPI	NPI	NPI	83
					mg/kg bw/d				mg/kg
									bw/d



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SECTION 8. Exposure controls/personal protection

.../>>

Reaction mass of 5-chlo	ro-2-methyl-2	2H-isothiazol-3-or	nelEC no. 247-	500-71 and 2-me	ethyl-2H-isothi	azol-3-one (EC r	10.	
220-239-6] (3:	•				,			
Predicted no-effect conc	entration - P	NEC						
Normal value in fresh	water					3,39	μg/l	
Normal value in marii	ne water					3,39	μg/l	
Normal value for fres	h water sedir	ment				27	μg/kg	
Normal value for mar	ine water se	diment				27	μg/kg	
Normal value of STP	microorganis	sms				230	μg/l	
Health - Derived no-effective	ct level - DNI	EL / DMEL						
	Effects on	consumers			Effects on w	orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		110		90				
		μg/kg bw/d		μg/kg bw/d				
Inhalation	40	NPI	20	NPI	40	NPI	20	NPI
	μg/m3		μg/m3		µg/m3		µg/m3	
Skin		NPI	NPI	NPI		NPI	NPI	NPI

			1,2-benziso	thiazol-3(2H)-on	ie			
Predicted no-effect conc	entration - F	PNEC						
Normal value in fresh	water					4,03	μg/l	
Normal value in marir	ne water					403	ng/l	
Normal value for fres	h water sed	iment				49,9	μg/kg	
Normal value for mar	ine water se	ediment				4,99	μg/kg	
Normal value of STP	microorgan	isms				1,03	mg/l	
Health - Derived no-effect	ct level - DN	IEL / DMEL						
	Effects o	n consumers			Effects on w	orkers		
Route of exposure	Effects o Acute	n consumers Acute	Chronic	Chronic	Effects on w Acute	orkers Acute	Chronic	Chronic
Route of exposure			Chronic local	Chronic systemic			Chronic local	Chronic systemic
Route of exposure	Acute	Acute			Acute	Acute		
	Acute	Acute		systemic	Acute	Acute		systemic
	Acute	Acute		systemic 1,2	Acute	Acute		systemic 6,81
Inhalation	Acute	Acute		systemic 1,2 mg/m3	Acute	Acute		systemic 6,81 mg/m3

Legend:

 $(C) = CEILING \hspace*{0.2cm} ; \hspace*{0.2cm} INHAL = Inhalable \hspace*{0.2cm} Fraction \hspace*{0.2cm} ; \hspace*{0.2cm} RESP = Respirable \hspace*{0.2cm} Fraction \hspace*{0.2cm} ; \hspace*{0.2cm} THORA = Thoracic \hspace*{0.2cm} Fraction.$

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.

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 I 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



.../>>

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SECTION 8. Exposure controls/personal protection

compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Information **Properties**

Appearance pasty liquid

Colour White and the colour chart shades

Odour Feeble Melting point / freezing point Not available Initial boiling point 100 °C not flammable Flammability Lower explosive limit Not applicable Upper explosive limit Not applicable Flash point Not applicable Not applicable Auto-ignition temperature

рН 8-10 Not available Kinematic viscosity Dynamic viscosity 3500 cps Solubility Mixable in water Partition coefficient: n-octanol/water Not available

Vapour pressure Not available Density and/or relative density 1,25 Not available Relative vapour density Particle characteristics Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

g/litre VOC (Directive 2004/42/EC): 5,72 % - 71,46 VOC (volatile carbon) 2,20 % - 27,52 g/litre

Explosive properties not applicable Oxidising properties not applicable

SECTION 10. Stability and reactivity

10.1. Reactivity

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

Ammonia

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

PHOSPHORIC ACID

Decomposes at temperatures above 200°C/392°F.

(2-methoxymethylethoxy)propanol

Forms peroxides with: air.

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.

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

PHOSPHORIC ACID

Risk of explosion on contact with: nitromethane. May react dangerously with: alkalis, sodium borohydride.

(2-methoxymethylethoxy)propanol

May react violently with: strong oxidising agents.

@EPY 11.1.2 - SDS 1004.14



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SECTION 10. Stability and reactivity

2-(2-butoxyethoxy)ethanol

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

10.4. Conditions to avoid

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

.../>>

(2-methoxymethylethoxy)propanol

Avoid exposure to: sources of heat. Possibility of explosion.

2-(2-butoxyethoxy)ethanol

Avoid exposure to: air.

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.

PHOSPHORIC ACID

Incompatible with: metals, strong alkalis, aldehydes, organic sulphides, peroxides.

2-(2-butoxyethoxy)ethanol

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

10.6. Hazardous decomposition products

Ammonia

May develop: nitric oxide. PHOSPHORIC ACID

Man danalar abasabard

May develop: phosphoryl oxides.

2-(2-butoxyethoxy)ethanol May develop: hydrogen.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

2-(2-butoxyethoxy)ethanol

WORKERS: inhalation; contact with the skin.

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

2-(2-butoxyethoxy)ethanol

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

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

Not classified (no significant component)

Ammonia

LD50 (Oral): 350 mg/kg Rat LC50 (Inhalation vapours): 2000 ppm/4h ratto



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SECTION 11. Toxicological information

.../>>

PHOSPHORIC ACID

 LD50 (Dermal):
 2740 mg/kg Rabbit

 LD50 (Oral):
 1530 mg/kg Rat

 LC50 (Inhalation mists/powders):
 > 0,85 mg/l/1h Rat

(2-methoxymethylethoxy)propanol

 LD50 (Dermal):
 9510 mg/kg rabbit

 LD50 (Oral):
 > 5000 mg/kg rat

 LC50 (Inhalation vapours):
 275 mg/l/7h rat

2-(2-butoxyethoxy)ethanol

LD50 (Dermal): 2764 mg/kg Rabbit LD50 (Oral): 5530 mg/kg Mouse

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]

(3:1)

LD50 (Dermal): 1008 mg/kg bw (rat)

STA (Dermal): 50,001 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): > 64 mg/kg bw 64-561 (rat) LC50 (Inhalation vapours): > 171 mg/m3 171-2360 (rat)

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

LD50 (Dermal): 2000 mg/kg bw (rat)

LD50 (Oral): > 490 mg/kg bw 490-670 (rat)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 1,2-benzisothiazol-3(2H)-one

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available



.../>>

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SECTION 11. Toxicological information

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2 Information on other hazards

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

SECTION 12. Ecological information

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

12.1. Toxicity

Ammonia

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

(2-methoxymethylethoxy)propanol

LC50 - for Fish > 1000 mg/l/96h Poecilia reticulata

1919 mg/l/48h EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants 6999 mg/l/72h Skeletonema costatum

2-(2-butoxyethoxy)ethanol

LC50 - for Fish 1300 mg/l EC50 - for Crustacea 100 mg/l/48h 100 mg/l/96h EC50 - for Algae / Aquatic Plants

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

LC50 - for Fish > 190 µg/l 190-330 > 7 µg/l 7-160 EC50 - for Crustacea EC50 - for Algae / Aquatic Plants > 6,3 µg/l 6,3-27,3 Chronic NOEC for Fish 46,4 µg/l 35 days Chronic NOEC for Crustacea > 111 µg/l 11.1-1050

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

LC50 - for Fish > 2,15 mg/l 2,15-22 > 2,9 mg/l 2,9-2,94 EC50 - for Crustacea > 70 µg/l 70-150 EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants > 40,3 µg/l 40-55





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SECTION 12. Ecological information .../>>

12.2. Persistence and degradability

Ammonia

Degradability: information not available

PHOSPHORIC ACID

Solubility in water > 850000 mg/l

Degradability: information not available

(2-methoxymethylethoxy)propanol

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

2-(2-butoxyethoxy)ethanol

Solubility in water 955 g/l

Rapidly degradable

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Rapidly degradable

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

Rapidly degradable

12.3. Bioaccumulative potential

2-(2-butoxyethoxy)ethanol

Partition coefficient: n-octanol/water 1 BCF < 100

12.4. Mobility in soil

Information not available

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 ≥ than 0,1%.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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

ΕN



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SECTION 14. Transport information .../>>

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:

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

None

Product

Point

Contained substance

75 Point

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 ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

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

Substances subject to the Rotterdam Convention:

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

VOC (Directive 2004/42/EC):

Interior / exterior trim and cladding paints for wood, metal or plastic.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 1: Low hazard to waters

15.2. Chemical safety assessment

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



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SECTION 16 Other information

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

Met. Corr. 1 Substance or mixture corrosive to metals, category 1

Acute Tox 1 Acute toxicity, category 1 Acute Tox. 2 Acute toxicity, category 2 Acute toxicity, category 3 Acute Tox 3 Skin Corr. 1B Skin corrosion, category 1B Eve Dam. 1 Serious eye damage, category 1 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 Hazardous to the aquatic environment, chronic toxicity, category 3 Aquatic Chronic 3

H290 May be corrosive to metals.

H330 Fatal if inhaled

H310 Fatal in contact with skin. Toxic if swallowed. H301

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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



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SECTION 16. Other information

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

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

02/03/08/09/10/11/12/13/15/16.



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ECOSMALTO UNIVERSALE SATINATO

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Safety Data Sheet

According to Annex II to REACH - Regulation 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

ECOSMALTO UNIVERSALE SATINATO Product name

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

Intended use Water based, acrylic, satin enamel for interiors and exteriors.

Uses advised against Uses other than those indicated

1.3. Details of the supplier of the safety data sheet

OIKOS S.P.A. A SOCIO UNICO Name

Full address Via Cherubini 2

District and Country 47043 Gatteo Mare (FC)

Italia

0547 681412 Tel. 0547 681430 Fax

e-mail address of the competent person

responsible for the Safety Data Sheet certificazioniprodotti@oikos-group.it

1.4. Emergency telephone number

NHS National Health Service 111 For urgent inquiries refer to

OIKOS S.P.A. a socio unico Company emergency number: 0547 681412 Technical support - Monday to Friday from 8.00-13.00; 13:30 to 16:30

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

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Hazardous to the aquatic environment, chronic H412 Harmful to aquatic life with long lasting effects.

toxicity, category 3

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

Hazard pictograms:

Signal words:

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

EUH208 Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and

2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

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

May produce an allergic reaction.

Precautionary statements:

Dispose of contents / container in accordance with local regulation. P501

P273 Avoid release to the environment.



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ECOSMALTO UNIVERSALE SATINATO

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SECTION 2. Hazards identification

VOC (Directive 2004/42/EC):

Interior / exterior trim varnishes and woodstains.

VOC given in g/litre of product in a ready-to-use condition: 95,00 I imit value: 130.00

.../>>

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0.1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification Classification (EC) 1272/2008 (CLP) x = Conc. %

(2-methoxymethylethoxy)propanol

CAS 34590-94-8 $1.5 \le x < 2.5$ Substance with a community workplace exposure limit.

252-104-2 EC

INDEX REACH Reg.

2-(2-butoxyethoxy)ethanol

01-2119450011-60

CAS 112-34-5

EC 203-961-6

INDEX 603-096-00-8 REACH Reg. 01-2119475104-44 1,2-benzisothiazol-3(2H)-one

CAS 2634-33-5 $0.024 \le x < 0.03$ Acute Tox. 2 H330. Acute Tox. 4 H302. Eve Dam. 1 H318. Skin Irrit. 2 H315.

Eye Irrit. 2 H319

Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

EC 220-120-9 Skin Sens. 1 H317: ≥ 0,05%

 $0,1162 \le x < 0,1212$

INDEX LD50 Oral: >490 mg/kg bw, STA Inhalation mists/powders: 0,051 mg/l, STA 613-088-00-6

Inhalation vapours: 0,501 mg/l

REACH Reg. 01-2120761540-60

Ammonia

CAS 1336-21-6 0,00449 ≤ x < 0,00559 Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1,

Classification note according to Annex VI to the CLP Regulation: B

FC 215-647-6 INDEX 007-001-01-2

CAS 7783-90-6 0,00289 ≤ x < 0,00399 Aquatic Acute 1 H400 M=1000, Aquatic Chronic 1 H410 M=100

EC 232-033-3

INDEX

PHOSPHORIC ACID

0,0014 ≤ x < 0,00235 Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318, Classification note 7664-38-2 CAS

according to Annex VI to the CLP Regulation: B

231-633-2 Skin Corr. 1B H314: ≥ 25%, Skin Irrit. 2 H315: ≥ 10%, Eye Dam. 1 H318: ≥ FC.

25%, Eye Irrit. 2 H319: ≥ 10%

INDEX 015-011-00-6

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]

(3:1)CAS

0,00109 ≤ x < 0,00114 Acute Tox. 1 H330, Acute Tox. 2 H310, Acute Tox. 3 H301, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100,

Aquatic Chronic 1 H410 M=100

Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1 H317: ≥ 611-341-5 EC

0,0015%, Eye Irrit. 2 H319: ≥ 0,6%

INDFX 613-167-00-5 LD50 Oral: >64 mg/kg bw, STA Dermal: 50,001 mg/kg, STA Inhalation

vapours: 0,05 mg/l

01-2120764691-48 REACH Reg.

55965-84-9

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



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SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

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

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

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

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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



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SECTION 7. Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und
		Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung
		gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
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
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
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 2021

				An	nmonia	
Threshold Limi	it Value					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	14	20	36	50	

				PHOSPH	HORIC ACIE	D
Threshold Limit Va	ılue					
Type	Country	TWA/8h		STEL/15i	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	2		4 (C)		INHAL
MAK	DEU	2		4		INHAL
VLA	ESP	1		2		
VLEP	FRA	1	0,2	2	0,5	
VLEP	ITA	1		2		
NDS/NDSCh	POL	1		2		
WEL	GBR	1		2		
OEL	EU	1		2		
TLV-ACGIH		1		3		



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SECTION 8. Exposure controls/personal protection

			(2-methoxymethy	rlethoxy)propar	nol			
hreshold Limit Va	alue								
Туре	Country			STEL/15min		Remarks / 0	Observations		
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	310	50	310	50				
MAK	DEU	310	50	310	50				
VLA	ESP	308	50			SKIN			
VLEP	FRA	308	50			SKIN			
VLEP	ITA	308	50			SKIN			
NDS/NDSCh	POL	240		480		SKIN			
WEL	GBR	308	50			SKIN			
OEL	EU	308	50			SKIN			
redicted no-effec	t concentration	on - PNEC							
Normal value ir	n fresh water						19	mg/l	
Normal value ir	n marine wate	er					1,9	mg/l	
Normal value for	or fresh wate	r sediment					70,2	mg/kg	
Normal value for	or marine wa	ter sediment					7,02	mg/kg	
Normal value for	or water, inte	rmittent relea	ase				190	mg/l	
Normal value o	f STP micro	organisms					4168	mg/l	
Normal value for	or the terresti	rial compartr	nent				2,74	mg/kg	
lealth - Derived n	o-effect level	- DNEL / DI	MEL						
	Effe	cts on consu	ımers			Effects on wo	rkers		
Route of expos	ure Acu	te Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sys	temic	local	systemic	local	systemic	local	systemic
Oral				VND	36				
					mg/kg bw/d				
Inhalation				VND	37,2			VND	308
					mg/m3				mg/m3
Skin				VND	121			VND	283
					mg/kg bw/d				mg/kg
									bw/d

				2-(2-butoxye	thoxy)ethanol				
Threshold Limit Va	alue			,	• /				
Туре	Country	TWA/8h		STEL/15n	nin	Remarks / C	Observations		
	-	mg/m3	ppm	mg/m3	ppm				
AGW	DEU	67	10	100,5 (C)	15 (C)		Hinweis		
MAK	DEU	67	10	100,5	15		Hinweis		
VLA	ESP	67,5	10	101,2	15				
VLEP	FRA	68	10	101,2	15				
VLEP	ITA	67,5	10	101,2	15				
NDS/NDSCh	POL	67		100					
WEL	GBR	67,5	10	101,2	15				
OEL	EU	67,5	10	101,2	15				
TLV-ACGIH		66	10			INHAL			
Predicted no-effect	t concentrat	ion - PNEC							
Normal value in	r fresh wate	r					1,1	mg/l	
Normal value in	n marine wa	ter					0,11	mg/l	
Normal value for	or fresh wate	er sediment					4,4	mg/kg	
Normal value for	or marine wa	ater sedimer	nt				0,44	mg/kg	
Normal value of							200	mg/l	
Normal value for	or the terres	trial compart	tment				0,32	mg/kg	
Health - Derived no	o-effect leve	el - DNEL / D	MEL						
	Eff	ects on cons	umers			Effects on wo	rkers		
Route of expos	ure Ac	ute Ad	cute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loc	al sy	stemic	local	systemic	local	systemic	local	systemic
Oral		NI	기	NPI	5				
					mg/kg bw/d				
Inhalation	60,	7 NI	기	40,5	40,5	101,2	NPI	67,5	67,5
	mg	/m3		mg/m3	mg/m3	mg/m3		mg/m3	mg/m3
Skin		NI	7	NPI	50	NPI	NPI	NPI	83
					mg/kg bw/d				mg/kg
									bw/d



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SECTION 8. Exposure controls/personal protection

Reaction mass of 5-chlor	ro-2-methyl-2	H-isothiazol-3-on	ie[EC no. 247-5	500-7] and 2-me	ethyl-2H-isothiazo	ol-3-one [EC r	10.			
220-239-6] (3:	1)									
Predicted no-effect conc	entration - PN	NEC								
Normal value in fresh	Normal value in fresh water 3,39 µg/l									
Normal value in marir	ne water					3,39	μg/l			
Normal value for fresl	n water sedin	nent				27	μg/kg			
Normal value for mar	ine water sed	liment				27	μg/kg			
Normal value of STP	microorganis	ms				230	μg/l			
Health - Derived no-effect	ct level - DNE	L / DMEL					. •			
	Effects on	consumers			Effects on work	Effects on workers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic		
	local	systemic	local	systemic	local	systemic	local	systemic		
Oral		110		90						
		μg/kg bw/d		μg/kg bw/d						
Inhalation	40	NPI	20	NPI	40	NPI	20	NPI		
	μg/m3		μg/m3		μg/m3		μg/m3			
Skin	· -	NPI	NPI	NPI		NPI	NPI	NPI		

			1,2-benziso	thiazol-3(2H)-on	е					
Predicted no-effect conc	entration - F	PNEC								
Normal value in fresh	water					4,03	μg/l			
Normal value in marii	ne water					403	ng/l			
Normal value for fres	h water sed	iment				49,9	μg/kg			
Normal value for mar	ine water se	ediment				4,99	μg/kg			
Normal value of STP	microorgan	isms				1,03	mg/l			
Health - Derived no-effect	ct level - DN	EL / DMEL								
	Effects o	n consumers			Effects on workers					
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic		
	local	systemic	local	systemic	local	systemic	local	systemic		
Inhalation				1,2				6,81		
				mg/m3				mg/m3		
Skin				345				966		
				μg/kg bw/d				μg/kg		
								bw/d		

(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.

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 I 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



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Information

SECTION 8. Exposure controls/personal protection

compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties

Appearance pasty liquid

Colour White and the colour chart

shades Odour Feeble Melting point / freezing point Not available Initial boiling point 100 °C not flammable Flammability Lower explosive limit Not applicable Upper explosive limit Not applicable

Flash point Not applicable Not applicable Auto-ignition temperature 8-10

рН Not available Kinematic viscosity Dynamic viscosity 5000 cps Solubility soluble in water Partition coefficient: n-octanol/water Not available Vapour pressure Not available

Density and/or relative density 1,2

Not available Relative vapour density Particle characteristics Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

g/litre VOC (Directive 2004/42/EC): 5,45 % - 65,43 VOC (volatile carbon) 2,48 % - 29,72 g/litre

Explosive properties not applicable Oxidising properties not applicable

SECTION 10. Stability and reactivity

10.1. Reactivity

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

Ammonia

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

PHOSPHORIC ACID

Decomposes at temperatures above 200°C/392°F.

(2-methoxymethylethoxy)propanol

Forms peroxides with: air.

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.

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

PHOSPHORIC ACID

Risk of explosion on contact with: nitromethane. May react dangerously with: alkalis, sodium borohydride.

(2-methoxymethylethoxy)propanol

May react violently with: strong oxidising agents.

@EPY 11.1.2 - SDS 1004.14



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

2-(2-butoxyethoxy)ethanol

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

10.4 Conditions to avoid

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

(2-methoxymethylethoxy)propanol

Avoid exposure to: sources of heat. Possibility of explosion.

2-(2-butoxyethoxy)ethanol

Avoid exposure to: air.

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.

PHOSPHORIC ACID

Incompatible with: metals, strong alkalis, aldehydes, organic sulphides, peroxides.

2-(2-butoxyethoxy)ethanol

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

10.6. Hazardous decomposition products

Ammonia

May develop: nitric oxide. PHOSPHORIC ACID

May develop: phosphoryl oxides.

2-(2-butoxyethoxy)ethanol May develop: hydrogen.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

2-(2-butoxyethoxy)ethanol

WORKERS: inhalation; contact with the skin.

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

2-(2-butoxyethoxy)ethanol

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

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

Not classified (no significant component)

Ammonia

LD50 (Oral): 350 mg/kg Rat LC50 (Inhalation vapours): 2000 ppm/4h ratto



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SECTION 11. Toxicological information

PHOSPHORIC ACID

LD50 (Dermal): 2740 mg/kg Rabbit LD50 (Oral): 1530 mg/kg Rat LC50 (Inhalation mists/powders): > 0,85 mg/l/1h Rat

.../>>

(2-methoxymethylethoxy)propanol

LD50 (Dermal): 9510 mg/kg rabbit LD50 (Oral): > 5000 mg/kg rat LC50 (Inhalation vapours): 275 mg/l/7h rat

2-(2-butoxyethoxy)ethanol

LD50 (Dermal): 2764 mg/kg Rabbit LD50 (Oral): 5530 mg/kg Mouse

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]

(3:1)

LD50 (Dermal): 1008 mg/kg bw (rat)

50,001 mg/kg estimate from table 3.1.2 of Annex I of the CLP STA (Dermal):

(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): > 64 mg/kg bw 64-561 (rat) LC50 (Inhalation vapours): > 171 mg/m3 171-2360 (rat)

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

LD50 (Dermal): 2000 mg/kg bw (rat)

LD50 (Oral): > 490 mg/kg bw 490-670 (rat)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 1,2-benzisothiazol-3(2H)-one

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available



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SECTION 11. Toxicological information

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2 Information on other hazards

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

SECTION 12. Ecological information

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

12.1. Toxicity

Ammonia

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

(2-methoxymethylethoxy)propanol

LC50 - for Fish > 1000 mg/l/96h Poecilia reticulata

1919 mg/l/48h EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants 6999 mg/l/72h Skeletonema costatum

2-(2-butoxyethoxy)ethanol

LC50 - for Fish 1300 mg/l EC50 - for Crustacea 100 mg/l/48h 100 mg/l/96h EC50 - for Algae / Aquatic Plants

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

LC50 - for Fish > 190 µg/l 190-330 > 7 µg/l 7-160 EC50 - for Crustacea EC50 - for Algae / Aquatic Plants > 6,3 µg/l 6,3-27,3 Chronic NOEC for Fish 46,4 µg/l 35 days Chronic NOEC for Crustacea > 111 µg/l 11.1-1050

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

LC50 - for Fish > 2,15 mg/l 2,15-22 > 2,9 mg/l 2,9-2,94 EC50 - for Crustacea > 70 µg/l 70-150 EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants > 40,3 µg/l 40-55



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SECTION 12. Ecological information

12.2. Persistence and degradability

Ammonia

Degradability: information not available

PHOSPHORIC ACID

> 850000 mg/l Solubility in water

.../>>

Degradability: information not available

(2-methoxymethylethoxy)propanol

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

2-(2-butoxyethoxy)ethanol

955 g/l Solubility in water

Rapidly degradable

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Rapidly degradable

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

Rapidly degradable

12.3. Bioaccumulative potential

2-(2-butoxyethoxy)ethanol

Partition coefficient: n-octanol/water **BCF** < 100

12.4. Mobility in soil

Information not available

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 ≥ than 0,1%.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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

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SECTION 14. Transport information .../>>

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU:

None

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

Product

Point

Contained substance

75 Point

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 ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

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

Substances subject to the Rotterdam Convention:

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

VOC (Directive 2004/42/EC):

Interior / exterior trim varnishes and woodstains.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 1: Low hazard to waters

15.2. Chemical safety assessment

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



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SECTION 16. Other information

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

Met. Corr. 1 Substance or mixture corrosive to metals, category 1

Acute Tox. 1
Acute toxicity, category 1
Acute Tox. 2
Acute toxicity, category 2
Acute Tox. 3
Acute toxicity, category 3
Skin Corr. 1B
Skin corrosion, category 1B
Eye Dam. 1
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 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H290 May be corrosive to metals.

H330 Fatal if inhaled.

H310 Fatal in contact with skin. H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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



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SECTION 16. Other information

- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament

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

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

02/03/08/09/10/11/12/13/15/16.