

**CENTRO DISTRIBUZIONE UTENSILI SPA**Revision nr. 5 **EN**

Dated 18/05/2022

PERFORMA V10 E/BD

Printed on 20/05/2022

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Replaced revision:4 (Dated: 07/08/2019)

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

Code: **U01215**
Product name **PERFORMA V10 E/BD**

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

Intended use **Emulsifiable metalworking fluid for mechanical machining.**
Uses advised against: **Different uses than those intended.**

1.3. Details of the supplier of the safety data sheet

Name **CENTRO DISTRIBUZIONE UTENSILI SPA**
Full address **Via delle Gerole, 19**
District and Country **20867 CAPONAGO (MB)**
ITALY
tel. +39 02 95746081
fax. + 39 02 95745182

e-mail address of the competent person

responsible for the Safety Data Sheet **info@cdu.net**
Supplier: **CENTRO DISTRIBUZIONE UTENSILI SPA**

1.4. Emergency telephone number

For urgent inquiries refer to **CENTRO DISTRIBUZIONE UTENSILI SPA +39 02 95746081**
(Technical support - Office hour 8.30-13.00 - 14.00-17.30)

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 2020/878.

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

Hazard classification and indication:

Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:



Signal words: **WARNING**

Hazard statements:

H319 Causes serious eye irritation.
H315 Causes skin irritation.

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H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

Precautionary statements:

P280 Wear protective gloves / eye protection / face protection.
P261 Avoid breathing fume / gas / mist / vapours / spray.
P333+P313 If skin irritation or rash occurs: get medical advice / attention.
P337+P313 If eye irritation persists: get medical advice / attention.
P264 Wash the skin thoroughly after handling.
P362+P364 Take off contaminated clothing and wash it before reuse.

Contains: 1,2-BENZISOTHIAZOL-3(2H)-ONE;
2-METHYLISOTHIAZOL-3(2H)-ONE;
N,N-BIS (2-ETHYLESYL) -5-METHYL-1H-BENZOTHRIAZOLE-1-METHYLAMINE (Mixture);
PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.
The product does not contain substances with endocrine disrupting properties in concentration $\geq$ 0.1%.

SECTION 3. Composition/information on ingredients**3.2. Mixtures**

Contains:

Identification	X = Conc. %	Classification (EC) 1272/2008 (CLP)
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(Z)-9-OCTADECEN-1-OL ETHOXYLATED

CAS 9004-98-2	$2,45 \leq X < 4,45$	Skin Irrit. 2 H315, Aquatic Chronic 2 H411
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EC 500-016-2

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REACH Reg. 01-2120139360-66

HEXADECAN- L-OL, ETHOXYLATED

CAS 9004-95-9	$1,85 \leq X \leq 2,85$	Aquatic Chronic 2 H411
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EC 500-014-1

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REACH Reg. 01-2120770779-34

(9Z)-N-[2-(2-HYDROXYETHOXY)ETHYL]OCTADEC-9-ENAMIDE

CAS 26027-37-2	$1,75 \leq X < 2,75$	Eye Irrit. 2 H319
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EC 607-851-2

INDEX -

REACH Reg. polymer

2-AMINOETHANOL

CAS 141-43-5	$1,00 \leq X < 2,00$	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Chronic 3 H412
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STOT SE 3 H335: $\geq$ 5%
LD50 Oral: 1515 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l

EC 205-483-3

INDEX 603-030-00-8

REACH Reg. 01-2119486455-28

2-(2-BUTOXYETHOXY)ETHANOL

CAS 112-34-5	$1,00 \leq X < 2,00$	Eye Irrit. 2 H319
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EC 203-961-6

INDEX 603-096-00-8

REACH Reg. 01-2119475104-44



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OCTADECAN-1-OL, ETHOXYLATED

CAS 9005-00-9 0,50 ≤ X < 1,38 Aquatic Chronic 2 H411

EC 500-017-8

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REACH Reg. 01-21199777092-34

1,1'-IMINODIPROPAN-2-OL

CAS 110-97-4 0,80 ≤ X < 1,30 Eye Irrit. 2 H319

EC 203-820-9

INDEX 603-083-00-7

(Z)-N-METHYL-N-(1-OXO-9-OCTADECENYL)GLYCINE

CAS 110-25-8 0,69 ≤ X ≤ 0,99 Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1

EC 203-749-3

STA Inhalation vapours: 11 mg/l

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REACH Reg. 01-2119488991-20

DICYCLOHEXYLAMINE

CAS 101-83-7 0,65 ≤ X ≤ 0,95 Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 202-980-7

LD50 Oral: 200 mg/kg, LD50 Dermal: >200 mg/kg

INDEX 612-066-00-3

REACH Reg. 01-2119493354-33

2-METHYLISOTHIAZOL-3(2H)-ONE

CAS 2682-20-4 0,112 ≤ X ≤ 0,212 Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1, EUH071

EC 220-239-6

INDEX 613-326-00-9

REACH Reg. 01-2120764690-50

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

CAS 3811-73-2 0,105 ≤ X ≤ 0,205 Acute Tox. 3 H311, Acute Tox. 3 H331, Acute Tox. 4 H302, STOT RE 1 H372, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 2 H411

EC 223-296-5

STA Oral: 500 mg/kg bw, STA Dermal: 790 mg/kg bw, LC50 Inhalation mists/powders: 0,5 mg/l

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REACH Reg. 01-2119493385-28

N,N-BIS (2-ETHYLESYL) -5-METHYL-1H-BENZOTHRIAZOLE-1-METHYLAMINE (Mixture)

CAS - 0,10 ≤ X ≤ 0,20 Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

EC 939-700-4

INDEX -

REACH Reg. 01-2119982395-25

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

CAS 2634-33-5 0,10 ≤ X < 0,20 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

INDEX 613-088-00-6

REACH Reg. 01-2120761540-60

STA Oral: 500 mg/kg, STA Inhalation vapours: 0,501 mg/l, STA Inhalation mists/powders: 0,051 mg/l, STA Inhalation gas: 100 ppm

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

SECTION 4. First aid measures**4.1. Description of first aid measures**

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

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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 for the doctor: symptomatically treatment.

SECTION 5. Firefighting measures**5.1. Extinguishing media****SUITABLE EXTINGUISHING EQUIPMENT**

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

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture**HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Do not breathe combustion products.

5.3. Advice for firefighters**GENERAL INFORMATION**

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

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

6.4. Reference to other sections

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

SECTION 7. Handling and storage**7.1. Precautions for safe handling**

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



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incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 10

7.3. Specific end use(s)

Emulsifiable metalworking fluid for mechanical machining.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

AUS	Österreich	Gesamte Rechtsvorschrift für Grenzwerteverordnung 2021, Fassung vom 17.06.2021
BEL	Belgique	Liste de valeurs limites d'exposition aux agents chimiques, livre VI du code du bien-être au travail
BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail: VME/VLE (SUVA). Grenzwerte am Arbeitsplatz: MAK (SUVA)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötavishoiu ja tööohutuse nõuded ning töökeskonna keemiliste ohutegurite piirnõrmiid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ``σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία``»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelethez a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
IRL	Éire	2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)
LUX	Luxembourg	Règlement grand-ducal du 24 janvier 2020 modifiant le règlement grand-ducal du 14 novembre 2016 concernant la protection des salariés contre les risques liés à l'exposition à des agents cancérigènes ou mutagènes au travail
LTU	Lietuva	Jsakymas dėl lietuvis higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
MLT	Malta	PROTECTION OF THE HEALTH AND SAFETY OF WORKERS FROM THE RISKS RELATED TO CHEMICAL AGENTS AT WORK REGULATIONS (S.L.424.24). PROTECTION OF WORKERS FROM THE RISKS RELATED TO EXPOSURE TO CARCINOGENS OR MUTAGENS AT WORK REGULATIONS (S.L.424.22)
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające



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ROU	România	rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
SWE	Sverige	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SVK	Slovensko	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVN	Slovenija	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
TUR	Türkiye	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
EU	OEL EU	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	TLV-ACGIH	Direttiva (UE) 2019/1831; Direttiva (UE) 2019/130; Direttiva (UE) 2019/983; Direttiva (UE) 2017/2398; Direttiva (UE) 2017/164; Direttiva 2009/161/UE; Direttiva 2006/15/CE; Direttiva 2004/37/CE; Direttiva 2000/39/CE; Direttiva 98/24/CE; Direttiva 91/322/CEE.
		ACGIH 2020

(Z)-9-OCTADECEN-1-OL ETHOXYLATED

Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,002	mg/l			
Normal value in marine water				0,002	mg/l			
Normal value for fresh water sediment				86,9	mg/kg/d			
Normal value for marine water sediment				86,9	mg/kg/d			
Normal value for the terrestrial compartment				1	mg/kg			
Health - Derived no-effect level - DNEL / DMEL								
Effects on consumers					Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				25 mg/kg bw/d				
Inhalation				87 mg/m3				294 mg/m3
Skin				1250 mg/kg bw/d				2080 mg/kg bw/d

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Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,009	mg/l			
Normal value in marine water				0,001	mg/l			
Normal value for fresh water sediment				94,3	mg/kg/d			
Normal value for marine water sediment				9,43	mg/kg/d			
Normal value for the terrestrial compartment				1	mg/kg			
Health - Derived no-effect level - DNEL / DMEL								
Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				25 mg/kg bw/d				
Inhalation				87 mg/m3				294 mg/m3
Skin				1250 mg/kg bw/d				2080 mg/kg bw/d

2-(2-BUTOXYETHOXY)ETHANOL

Threshold Limit Value				
Type	Country	TWA/8h	STEL/15min	Remarks / Observations

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		mg/m3	ppm	mg/m3	ppm		
MAK	AUS	67,5	10	101,2	15	Häufigkeit pro Schicht:4x	
TRK	AUS	67,5	10	101,2	15		
VLEP	BEL	67,5	10	101,2	15		
TLV	BGR	67,5	10	101,2	15		
MAK	CHE	67	10	101,2	15		
VME/VLE	CHE	67	10	101,2	15		
TLV	CZE	70	10,36	100	14,8		
AGW	DEU	67	10	100	15	INHAL	aerosol and vapour
MAK	DEU	67	10	100,5	15	Hinweis	
TLV	DNK	68	10	20	136		
VLA	ESP	67,5	10	101,2	15		
VLEP	FRA	68	10	101,2	15		
HTP	FIN	68	10				
TLV	GRC	67,5	10	101,2	15		
AK	HUN	67,5		101,2			
GVI/KGVI	HRV	67,5	10	101,2	15		
VLEP	ITA	67,5	10	101,2	15		
VL	LUX	67,5	10	101,2	15		
RD	LTU	67,5	10	101,2	15		
RV	LVA	67,5	10	101,2	15		
TLV	MLT	67,5	10	101,2	15		
TLV	NOR	68	10				
TGG	NLD	50		100		SKIN	
VLE	PRT	67,5	10	101,2	15		
NDS/NDSch	POL	67		100			
TLV	ROU	67,5	10	101,2	15		
NGV/KGV	SWE	68	10	101	15		
NPEL	SVK	67,5	10	101,2	15		
MV	SVN	67,5	10	101,2	15		
ESD	TUR	67,5	10	101,2	15		
WEL	GBR	67,5	10	101,2	15		
OEL	EU	67,5	10	101,2	15		
TLV-ACGIH			10			INHAL	
Predicted no-effect concentration - PNEC							
Normal value in fresh water				1,1		mg/l	
Normal value in marine water				0,11		mg/l	
Normal value for fresh water sediment				4,4		mg/kg	
Normal value for marine water sediment				0,44		mg/kg	
Normal value for water, intermittent release				11		mg/l	
Normal value of STP microorganisms				200		mg/l	
Normal value for the food chain (secondary poisoning)				56		mg/kg	



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Normal value for the terrestrial compartment

0,32

mg/kg

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				5 mg/kg bw/d				
Inhalation	60,7 mg/m3		40,5 mg/m3	40,5 mg/m3	101,2 mg/m3		67,5 mg/m3	67,5 mg/m3
Skin				50 mg/kg bw/d				83 mg/kg bw/d

2-AMINOETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	2,5	1	7,6	3	SKIN Häufigkeit pro Schicht:4x
VLEP	BEL	2,5	1	7,6	3	SKIN
TLV	BGR	2,5	1	7,6	3	SKIN
MAK	CHE	5	2	10	4	
VME/VLE	CHE	5	2	10	4	
TLV	CZE	2,5	0,985	7,5	2,955	
AGW	DEU	0,5	0,2	0,5	0,2	SKIN
MAK	DEU	0,51	0,2	0,51	0,2	
TLV	DNK	2,5	1			SKIN E
VLA	ESP	2,5	1	7,5	3	SKIN
TLV	EST	2,5	1	7,6	3	SKIN
VLEP	FRA	2,5	1	7,6	3	SKIN
HTP	FIN	2,5	1	7,6	3	SKIN
TLV	GRC	2,5	1	7,6	3	
AK	HUN	2,5		7,6		SKIN
GVI/KGVI	HRV	2,5	1	7,6	3	SKIN
VLEP	ITA	2,5	1	7,6	3	SKIN
OELV	IRL	2,5	1	7,6	3	SKIN
VL	LUX	2,5	1	7,6	3	SKIN
RD	LTU	2,5	1	7,6	3	SKIN
RV	LVA	0,5	0,2	7,6	3	SKIN
TLV	MLT	2,5	1	7,6	3	SKIN
TLV	NOR	2,5	1			SKIN
TGG	NLD	2,5		7,6		SKIN
VLE	PRT	2,5	1	7,6	3	SKIN
NDS/NDSch	POL	2,5		7,5		SKIN
TLV	ROU	2,5	1	7,6	3	SKIN
NGV/KGV	SWE	2,5	1	7,5	3	SKIN
NPEL	SVK	2,5	1	7,6	3	SKIN
MV	SVN	2,5	1	7,6	3	SKIN
ESD	TUR	2,5	1	7,6	3	SKIN



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WEL	GBR	2,5	1	7,6	3	SKIN
OEL	EU	2,5	1	7,6	3	SKIN
TLV-ACGIH		7,5	3	15	6	Eye and skin irr

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,085	mg/l
Normal value in marine water	0,0085	mg/l
Normal value for fresh water sediment	0,434	mg/kg
Normal value for marine water sediment	0,0434	mg/kg
Normal value for water, intermittent release	0,025	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,037	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				3,75 mg/kg				
Inhalation			2,00 mg/m3				3,30 mg/m3	
Skin				0,24 mg/kg				1,00 mg/kg

OCTADECAN-1-OL, ETHOXYLATED

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,005	mg/l
Normal value in marine water	0,001	mg/l
Normal value for fresh water sediment	230,37	mg/kg/d
Normal value for marine water sediment	23,04	mg/kg/d
Normal value for the terrestrial compartment	1	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				25 mg/kg bw/d				
Inhalation				87 mg/m3				294 mg/m3
Skin				1250 mg/kg bw/d				2080 mg/kg bw/d

1,1'-IMINODIPROPAN-2-OL

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,2777	mg/l
Normal value in marine water	0,02777	mg/l
Normal value for fresh water sediment	2,33	mg/kg
Normal value for marine water sediment	0,233	mg/kg
Normal value for water, intermittent release	2,777	mg/l
Normal value of STP microorganisms	15000	mg/l

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
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**CENTRO DISTRIBUZIONE UTENSILI SPA**

Revision nr. 5

EN

Dated 18/05/2022

Printed on 20/05/2022

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Replaced revision:4 (Dated: 07/08/2019)

Oral	1,3 mg/kg bw/d	
Inhalation	3,9 mg/m3	6,4 mg/m3
Skin	6,3 mg/kg bw/d	5 mg/kg bw/d

(Z)-N-METHYL-N-(1-OXO-9-OCTADECENYL)GLYCINE

Threshold Limit Value					
Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
MAK	CHE	0,1		0,2	
AGW	DEU	0,05		0,1	
MAK	DEU	0,05		0,1	

DICYCLOHEXYLAMINE

Threshold Limit Value					
Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	5	0,7	10	1,4

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,002	mg/l
Normal value in marine water	0	mg/l
Normal value for fresh water sediment	0,075	mg/kg
Normal value for marine water sediment	0,007	mg/kg
Normal value for water, intermittent release	0,01	mg/l
Normal value of STP microorganisms	21	mg/l
Normal value for the terrestrial compartment	0,014	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								0,353 mg/m3
Skin								0,1 mg/kg bw/d

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

Threshold Limit Value					
Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
MAK	AUS	1		4	
MAK	CHE	1		2	
AGW	DEU	1		2	
MAK	DEU	1		2	
TLV	DNK	1		2	
TLV-ACGIH		0,35			

N,N-BIS (2-ETHYLESYL) -5-METHYL-1H-BENZOTHRIAZOLE-1-METHYLAMINE (Mixture)**Predicted no-effect concentration - PNEC**



PERFORMA V10 E/BD

Normal value in fresh water	0,000976	mg/l
Normal value in marine water	0,000098	mg/l
Normal value for fresh water sediment	0,0121	mg/kg
Normal value for marine water sediment	0,00121	mg/kg
Normal value for water, intermittent release	0,00976	mg/l
Normal value of STP microorganisms	0,69	mg/l
Normal value for the terrestrial compartment	0,00184	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,2 mg/kg				
Inhalation				0,3 mg/m3			VND	1,3 mg/m3
Skin				0,2 mg/kg				0,4 mg/kg

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.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

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

SKIN PROTECTION

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

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

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

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

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

ENVIRONMENTAL EXPOSURE CONTROLS

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

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	Value	Information
Appearance	clear liquid	
Colour	amber	
Odour	characteristic	



PERFORMA V10 E/BD

Melting point / freezing point	Not available	
Initial boiling point	> 100 °C	
Flammability	Not applicable	
Lower explosive limit	Not applicable	
Upper explosive limit	Not applicable	
Flash point	> 100 °C	
Auto-ignition temperature	Not available	
pH	9,60 – 10,70	Concentration: 5%; Temperature: 20 ° C
Kinematic viscosity	40 mm ² /s	Temperature: 40 °C
Solubility	emulsifiable in water	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	0,97 - 0,99 kg/l	Temperature: 20 °C
Relative vapour density	Not available	
Particle characteristics	Not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Information not available.

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	2,60 %
VOC (volatile carbon)	1,08 %
Explosive 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-AMINOETHANOL

Corrodes: aluminium, copper, copper alloys.

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.

2-AMINOETHANOL

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

DICYCLOHEXYLAMINE

In case of insufficient ventilation and / or during use it can form explosive / flammable 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: heat (long period), flames, ignition sources.

2-AMINOETHANOL

Avoid exposure to: sources of heat, direct sunlight, moisture.

DICYCLOHEXYLAMINE

Avoid exposure to: heat, hot surfaces, sparks, naked flames, ignition sources.

N,N-BIS (2-ETHYLESYL) -5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE (Mixture)



PERFORMA V10 E/BD

Avoid exposure to: sparks, naked flames, electrostatic discharges.

10.5. Incompatible materials

2-(2-BUTOXYETHOXY)ETHANOL

Incompatible with: strong acids, strong alkalis, strong oxidising agents.

2-AMINOETHANOL

Incompatible with: oxidising agents, acids.

DICYCLOHEXYLAMINE

Incompatible with: acids, oxidizing agents.

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

Incompatible with: acids, oxidising agents.

N,N-BIS (2-ETHYLESYL) -5-METHYL-1H-BENZOTHRIAZOLE-1-METHYLAMINE (Mixture)

Incompatible with: strong oxidising agents, strong acids, strong bases.

10.6. Hazardous decomposition products

2-(2-BUTOXYETHOXY)ETHANOL

When heated to decomposition, it emits: carbon oxides, toxic and irritating gases and vapors acrid fumes, aldehydes, ketones, organic acids.

2-AMINOETHANOL

In decomposition develops: nitric oxide.

DICYCLOHEXYLAMINE

When heated to decomposition releases: nitric oxide, carbon monoxide, carbon dioxide, toxic gases or vapors.

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 1272/2008Metabolism, 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

Corrosive to the respiratory tract.

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Inhalation - gas) of the mixture:	> 20000 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

(Z)-9-OCTADECEN-1-OL ETHOXYLATED

LD50 (Oral):	> 21000 mg/kg Rat (OECD 401)
LD50 (Dermal):	> 2000 mg/kg/24h Rabbit
LC50 (Inhalation vapours):	> 100 mg/m3/6h Rat (OECD 403)



PERFORMA V10 E/BD

HEXADECAN- L-OL, ETHOXYLATED

LD50 (Oral): > 10000 mg/kg Rat (OECD 401)
LD50 (Dermal): > 2000 mg/kg/24h Rabbit (OECD 402)
LC50 (Inhalation vapours): > 1600 mg/m3 Rat (OECD 403)

2-(2-BUTOXYETHOXY)ETHANOL

LD50 (Oral): 2410 mg/kg dw Male rat (OECD 401)
LD50 (Dermal): 2764 mg/kg dw Rabbit (OECD 402)
LC50 (Inhalation vapours): > 29 mg/l/2h Rat

2-AMINOETHANOL

LD50 (Oral): 1515 mg/kg Rat (OECD 401)
LD50 (Dermal): 2504 mg/kg bw Rabbit (OECD 402)
STA (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)
LC50 (Inhalation vapours): > 1,3 mg/l/6h Rat (IRT)
STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)

OCTADECAN-1-OL, ETHOXYLATED

LD50 (Oral): > 21000 mg/kg/bw Rat (OECD 401)
LD50 (Dermal): > 2000 mg/kg/bw Rat (OECD 402)
LC50 (Inhalation vapours): > 1600 mg/m3/4h Rat (OECD 403)

1,1'-IMINODIPROPAN-2-OL

LD50 (Oral): 2000 mg/kg bw Rat
LD50 (Dermal): 8000 mg/kg bw Rabbit

(Z)-N-METHYL-N-(1-OXO-9-OCTADECENYL)GLYCINE

LD50 (Oral): > 5000 mg/kg Rat
LC50 (Inhalation vapours): 1,8 mg/l/4h Rat
STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)

DICYCLOHEXYLAMINE

LD50 (Oral): 200 mg/kg Male rat
LD50 (Dermal): > 200 mg/kg Rabbit

2-METHYLISOTHIAZOL-3(2H)-ONE

LD50 (Oral): 232 mg/kg Male rat
LD50 (Dermal): 242 mg/kg Rat
LC50 (Inhalation mists/powders): 0,13 mg/l/4h Male rat

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

LD50 (Oral): 500 mg/kg
LD50 (Dermal): 790 mg/kg
LC50 (Inhalation mists/powders): 0,5 mg/l

N,N-BIS (2-ETHYLESYL) -5-METHYL-1H-BENZOTHRIAZOLE-1-METHYLAMINE (Mixture)

LD50 (Oral): > 3313 mg/kg Rat (OECD 401)
LD50 (Dermal): > 2000 mg/kg Rat

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

LD50 (Dermal): > 2000 mg/kg bw Rat

SKIN CORROSION / IRRITATION

Causes skin irritation.

**PERFORMA V10 E/BD****SERIOUS EYE DAMAGE / IRRITATION**

Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin.

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.

Effects on or via lactation

Information not available.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class.

Target organ

Information not available.

Route of exposure

Information not available.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class.

Target organ

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



PERFORMA V10 E/BD

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-METHYLISOTHIAZOL-3(2H)-ONE**

LC50 - for Fish	4,77 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	0,934 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,103 mg/l/72h Selenastrum capricornutum

1,1'-IMINODIPROPAN-2-OL

LC50 - for Fish	1466 mg/l/96h Danio rerio
EC50 - for Crustacea	277,7 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	339 mg/l/72h Scenedesmus subspicatus

(Z)-N-METHYL-N-(1-OXO-9-OCTADECENYL)GLYCINE

LC50 - for Fish	> 1 mg/l Leuciscus idus
EC50 - for Crustacea	0,43 mg/l/48h Daphnia magna (OECD 202)
EC50 - for Algae / Aquatic Plants	6,3 mg/l/72h Desmodesmus subspicatus

2-(2-BUTOXYETHOXY)ETHANOL

LC50 - for Fish	1300 mg/l/96h Lepomis macrochirus (OECD 203)
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna (OECD 202)

2-AMINOETHANOL

LC50 - for Fish	349 mg/l/96h
EC50 - for Crustacea	65 mg/l/48h
EC50 - for Algae / Aquatic Plants	15 mg/l/72h

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

LC50 - for Fish	22 mg/l/96h Cyprinodon variegatus
EC50 - for Crustacea	2,94 mg/l/48h Daphnia magna (OECD 202)

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

LC50 - for Fish	0,00767 mg/l/96h Brachydanio rerio (OECD 203)
EC50 - for Crustacea	0,022 mg/l/48h Daphnia magna (OECD 202)
EC50 - for Algae / Aquatic Plants	0,46 mg/l/72h Selenastrum capricornutum (OECD 201)

N,N-BIS (2-ETHYLESYL) -5-METHYL-1H-BENZOTHRIAZOLE-1-METHYLAMINE (Mixture)

LC50 - for Fish	1,3 mg/l/96h Brachydanio rerio (OECD 203)
EC50 - for Crustacea	2,05 mg/l/48h Daphnia magna (OECD 202)
EC50 - for Algae / Aquatic Plants	0,658 mg/l/72h Desmodesmus subspicatus (OECD 201)

(Z)-9-OCTADECEN-1-OL ETHOXYLATED

LC50 - for Fish	108 mg/l/96h (OECD 203)
EC50 - for Crustacea	51 mg/l/48h (OECD202)



PERFORMA V10 E/BD

EC50 - for Algae / Aquatic Plants > 10 mg/l/72h (OECD 201)

HEXADECAN- L-OL, ETHOXYLATED

LC50 - for Fish 108 mg/l/96h (OECD 203)

EC50 - for Crustacea 51 mg/l/48h (OECD 202)

EC50 - for Algae / Aquatic Plants > 10 mg/l/72h (OECD 201)

OCTADECAN-1-OL, ETHOXYLATED

LC50 - for Fish 108 mg/l/96h (OECD 203)

EC50 - for Crustacea 51 mg/l/48h (OECD 202)

EC50 - for Algae / Aquatic Plants > 10 mg/l/72h (OECD 201)

DICYCLOHEXYLAMINE

LC50 - for Fish 62 mg/l/96h Danio Rerio (EU method C.1)

EC50 - for Crustacea 8 mg/l/48h Daphnia magna (OECD 202)

EC50 - for Algae / Aquatic Plants > 1 mg/l/72h Desmodesmus subspicatus

Chronic NOEC for Crustacea 0,016 mg/l (21d - OECD 202)

12.2. Persistence and degradability

2-METHYLISOTHIAZOL-3(2H)-ONE

Rapidly degradable

1,1'-IMINODIPROPAN-2-OL

Solubility in water Soluble

Rapidly degradable

(Z)-N-METHYL-N-(1-OXO-9-OCTADECENYL)GLYCINE

Rapidly degradable 85% - 28d (OECD 301/B)

2-(2-BUTOXYETHOXY)ETHANOL

Rapidly degradable 80-93% - 28d (OECD 301C)

2-AMINOETHANOL

Solubility in water Miscible

Rapidly degradable > 90% - 28d

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

Rapidly degradable

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

Rapidly degradable > 70% (OECD 301 B - CO2 Evolution)

N,N-BIS (2-ETHYLESYL) -5-METHYL-1H-BENZOTHRIAZOLE-1-METHYLAMINE (Mixture)

Solubility in water Insoluble

NOT rapidly degradable

(Z)-9-OCTADECEN-1-OL ETHOXYLATED



PERFORMA V10 E/BD

Rapidly degradable 83,6% - 28d (OECD 301/B)

HEXADECAN- L-OL, ETHOXYLATED

Rapidly degradable 87% - 28d (OECD 301/F)

OCTADECAN-1-OL, ETHOXYLATED

Rapidly degradable 83,6 % - 28d (OECD 301/B)

DICYCLOHEXYLAMINE

Rapidly degradable 76,9% - 14d (OECD 301 C)

12.3. Bioaccumulative potential

2-METHYLISOTHIAZOL-3(2H)-ONE

Partition coefficient: n-octanol/water < 0,32 Log Kow (HPLC - OECD 117)

BCF 3,16

2-(2-BUTOXYETHOXY)ETHANOL

Partition coefficient: n-octanol/water 1 Log Kow

2-AMINOETHANOL

Partition coefficient: n-octanol/water -1,91 Log Kow

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

Partition coefficient: n-octanol/water 0,7 Log Kow (HPLC - OECD 117)

BCF 6,95 - (fish - OECD 305)

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

Partition coefficient: n-octanol/water < -1,09 (OECD 107 - Sheke Flask Method)

DICYCLOHEXYLAMINE

Partition coefficient: n-octanol/water 2,72 Log Kow (25°C - OECD 117)

BCF 459

12.4. Mobility in soil

N,N-BIS (2-ETHYLESYL) -5-METHYL-1H-BENZOTHRIAZOLE-1-METHYLAMINE (Mixture)

Partition coefficient: soil/water 5,85

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available.



PERFORMA V10 E/BD

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

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

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

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

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

14.1. UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant.

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EU: none.

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

Product

Point 3 - 40

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

Not applicable.

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None.

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

None.



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Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls

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

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

WGK 2: hazard to waters.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the mixture.

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. 3	Acute toxicity, category 3
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1A	Skin sensitization, category 1A
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H372	Causes damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

LEGEND:



- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- 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).

Classification and procedure used to derive it according to Regulation (EC) 1272/2008 (CLP) in relation to mixtures:

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Eye Irrit. 2 H319	Calculation method
Skin Irrit. 2 H315	Calculation method
Skin Sens. 1A H317	Calculation method
Aquatic Chronic 3 H412	Calculation method

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2019/521 (XII Atp. CLP)
 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
 17. Regulation (EU) 2019/1148
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 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

**CENTRO DISTRIBUZIONE UTENSILI SPA****PERFORMA V10 E/BD**

Revision nr. 5

Dated 18/05/2022

Printed on 20/05/2022

Page n. 22/22

Replaced revision:4 (Dated: 07/08/2019)

EN

- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 08 / 09 / 10 / 11 / 12 / 15 / 16.