



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 50 E/BD

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

Intended use: Emulsifiable metalworking fluid 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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EN

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-BENZISOTIAZOL-3(2H)-ONE;
2-METHYLISOTHIAZOL-3(2H)-ONE;
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)
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC		
INDEX 649-466-00-2	$8,80 \leq x \leq 10,80$	Asp. Tox. 1 H304, Classification note according to Annex VI to the CLP
EC 265-156-6		Regulation: L. Substance with extract content in DMSO of less than 3% by weight, determined using the IP 346 method.
CAS 64742-53-6		
REACH Reg. 01-2119480375-34		
2-(2-BUTOXYETHOXY)ETHANOL		
INDEX 603-096-00-8	$1,73 \leq x \leq 2,73$	Eye Irrit. 2 H319
EC 203-961-6		
CAS 112-34-5		
REACH Reg. 01-2119475104-44		
2-AMINO-2-METHYLPROPANOL		
INDEX 603-070-00-6	$1,70 \leq x < 2,70$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
EC 204-709-8		
CAS 124-68-5		
REACH Reg. 01-2119475788-16		
(9Z)-N-[2-(2-HYDROXYETHOXY)ETHYL]OCTADEC-9-ENAMIDE		
INDEX -	$1,50 \leq x < 2,50$	Eye Irrit. 2 H319
EC 607-851-2		
CAS 26027-37-2		
REACH Reg. polymer		
(Z)-9-OCTADECEN-1-OL ETHOXYLATED		
INDEX -	$1,01 \leq x \leq 2,01$	Skin Irrit. 2 H315, Aquatic Chronic 2 H411
EC 500-016-2		
CAS 9004-98-2		
REACH Reg. 01-2120139360-66		



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2-AMINOETHANOL

INDEX 603-030-00-8 $0,70 \leq x \leq 1,70$ 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
EC 205-483-3 STOT SE 3 H335: $\geq 5\%$
CAS 141-43-5 LD50 Oral: 1515 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l
REACH Reg. 01-2119486455-28

HEXADECAN- L-OL, ETHOXYLATED

INDEX - $0,40 \leq x < 1,40$ Aquatic Chronic 2 H411
EC 500-014-1
CAS 9004-95-9
REACH Reg. 01-2120770779-34

2-AMINOBUTAN-1-OL

INDEX - $0,27 \leq x \leq 1,27$ Acute Tox. 4 H302, Skin Corr. 1 H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1
EC 202-488-2 LD50 Oral: 1800 mg/kg
CAS 96-20-8
REACH Reg. 01-2119492338-28

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

INDEX - $0,69 \leq x \leq 0,99$ 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
CAS 110-25-8
REACH Reg. 01-2119488991-20

DICYCLOHEXYLAMINE

INDEX 612-066-00-3 $0,65 \leq x \leq 0,95$ 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
CAS 101-83-7
REACH Reg. 01-2119493354-33

2-METHYLISOTHIAZOL-3(2H)-ONE

INDEX 613-326-00-9 $0,10 \leq x \leq 0,20$ 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 Skin Sens. 1A H317: $\geq 0,0015\%$
CAS 2682-20-4 LD50 Oral: 232 mg/kg, LD50 Dermal: 242 mg/kg, LC50 Inhalation mists/powders: 0,13 mg/l/4h
REACH Reg. 01-2120764690-50

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

INDEX 613-088-00-6 $0,10 \leq x \leq 0,20$ 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 Skin Sens. 1 H317: $\geq 0,05\%$
CAS 2634-33-5 STA Oral: 500 mg/kg, STA Inhalation vapours: 0,501 mg/l, STA Inhalation mists/powders: 0,051 mg/l
REACH Reg. 01-2120761540-60

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

INDEX - $0,10 \leq x \leq 0,185$ 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 LD50 Oral: 500 mg/kg, LD50 Dermal: 790 mg/kg, LC50 Inhalation mists/powders: 0,5 mg/l
CAS 3811-73-2
REACH Reg. 01-2119493385-28

Note L: the classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346.

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

SECTION 4. First aid measures

**4.1. Description of first aid measures**

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

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

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

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

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

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

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

Information 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 incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 10

7.3. Specific end use(s)

Emulsifiable metalworking fluid 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 töötervishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunns 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 rendelete 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“
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

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NLD	Nederland	grenseverdiër), 21. august 2018 nr. 1255 Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Direttiva (UE) 2022/431; 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.
	TLV-ACGIH	ACGIH 2021

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation							5,4 mg/m3	

2-(2-BUTOXYETHOXY)ETHANOL**Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm
MAK	AUS	67,5	10	101,2	15
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
MAK	DEU	67	10	100,5	15
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

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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		66	10		INHAL

Predicted no-effect concentration - PNEC					
Normal value in fresh water				1,1	mg/l
Normal value in marine water				0,11	mg/l
Normal value for fresh water sediment				4,4	mg/kg
Normal value for marine water sediment				0,44	mg/kg
Normal value for water, intermittent release				11	mg/l
Normal value of STP microorganisms				200	mg/l
Normal value for the food chain (secondary poisoning)				56	mg/kg
Normal value for the terrestrial compartment				0,32	mg/kg

Health - Derived no-effect level - DNEL / DMEL								
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-AMINO-2-METHYLPROPANOL						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	CHE	8,7	2,4	17,4	4,8	SKIN
VME/VLE	CHE	8,7	2,4	17,4	4,8	SKIN
AGW	DEU	3,7	1	7,4	2	SKIN
MAK	DEU	3,7	1	7,4	2	SKIN

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MV SVN 3,7 1 7,4 2 SKIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,188	mg/l
Normal value in marine water	0,0188	mg/l
Normal value for fresh water sediment	0,71	mg/kg
Normal value for marine water sediment	0,071	mg/kg
Normal value for water, intermittent release	1,88	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,03	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								0,35 mg/kg/d
Inhalation				4,7 mg/m3				1,16 mg/m3
Skin				2,3 mg/kg/d				1,16 mg/kg/d

(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

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



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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
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

HEXADECAN- L-OL, ETHOXYLATED

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,009	mg/l
Normal value in marine water	0,001	mg/l

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Normal value for fresh water sediment	94,3	mg/kg/d
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Normal value for marine water sediment	9,43	mg/kg/d
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Normal value for the terrestrial compartment	1	mg/kg
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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

(Z)-N-METHYL-N-(1-OXO-9-OCTADECENYL)GLYCINE**Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
MAK	CHE	0,1	0,2	INHAL
AGW	DEU	0,05	0,1	INHAL
MAK	DEU	0,05	0,1	INHAL

DICYCLOHEXYLAMINE**Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
AGW	DEU	5	0,7	10

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	Remarks / Observations
		mg/m3	ppm	
MAK	AUS	1	4	
MAK	CHE	1	2	INHAL aerosol
AGW	DEU	1	2	INHAL aerosol

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MAK	DEU	1	2	INHAL	aerosol
TLV	DNK	1	2		
TLV-ACGIH		0,35			

Legend:
(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

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

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

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

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (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	yellow	
Odour	characteristic	
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Flammability	Not applicable	
Lower explosive limit	Not applicable	
Upper explosive limit	Not applicable	
Flash point	> 100 °C	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
pH	9,80 - 10,70	Concentration: 5 %



Kinematic viscosity	>20,5 mm ² /sec	Temperature: 20 °C
Solubility	emulsifiable in water	Temperature: 40°C
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	0,99 - 1,01 Kg/dm ³	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)	4,82 %
VOC (volatile carbon)	2,32 %
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.

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Avoid exposure to: heat, naked flames, direct sunlight, ignition sources.

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.

10.5. Incompatible materials**DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC**

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

2-(2-BUTOXYETHOXY)ETHANOL

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

2-AMINO-2-METHYLPROPANOL

Keep away from: strong oxidising agents, strong acids, hydrocarbons.

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.

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-AMINO-2-METHYLPROPANOL

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

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 1272/2008

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

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:	0,0 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

LD50 (Dermal):	> 5000 mg/kg Rabbit (API 1982)
LD50 (Oral):	> 5000 mg/kg Rat (API 1986a)
LC50 (Inhalation vapours):	> 5,53 mg/l/4h Rat (EMBSI 1988a)

2-(2-BUTOXYETHOXY)ETHANOL

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



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2-AMINO-2-METHYLPROPANOL

LD50 (Dermal):

> 2000 mg/kg Rabbit

LD50 (Oral):

2150 mg/kg Mouse

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

LD50 (Dermal):

> 2000 mg/kg/24h Rabbit

LD50 (Oral):

> 21000 mg/kg Rat (OECD 401)

LC50 (Inhalation vapours):

> 100 mg/m³/6h Rat (OECD 403)

2-AMINOETHANOL

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)

LD50 (Oral):

1515 mg/kg Rat (OECD 401)

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)

HEXADECAN- L-OL, ETHOXYLATED

LD50 (Dermal):

> 2000 mg/kg/24h Rabbit (OECD 402)

LD50 (Oral):

> 10000 mg/kg Rat (OECD 401)

LC50 (Inhalation vapours):

> 1600 mg/m³ Rat (OECD 403)

2-AMINOBUTAN-1-OL

LD50 (Oral):

1800 mg/kg Rat (OECD 401)

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

LD50 (Oral):

> 5000 mg/kg Rat

LC50 (Inhalation vapours):

1,8 mg/l/4h Rat

DICYCLOHEXYLAMINE

LD50 (Dermal):

> 200 mg/kg Rabbit

LD50 (Oral):

200 mg/kg Male rat

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

LD50 (Dermal):

> 2000 mg/kg bw Rat

STA (Oral):

500 mg/kg estimate from table 3.1.2 of Annex I of the CLP

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

2-METHYLISOTHIAZOL-3(2H)-ONE

LD50 (Dermal):

242 mg/kg Rat

LD50 (Oral):

232 mg/kg Male rat

LC50 (Inhalation mists/powders):

0,13 mg/l/4h Male rat

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

LD50 (Dermal):

790 mg/kg

LD50 (Oral):

500 mg/kg

LC50 (Inhalation mists/powders):

0,5 mg/l

SKIN CORROSION / IRRITATION

Causes skin irritation.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin.

**GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class.

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class. Viscosity: >20,5 mm²/sec (40°C).

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**DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC**

LL50 – Fish	> 100 mg / l / 96h
LL50 – Crustaceans	> 10000 mg / l / 96h
NOEL - Algae / Aquatic Plants	> 100 mg / l / 72h
NOEL - Chronic Invertebrates	10 mg / l / 21d

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

(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

**2-AMINO-2-METHYLPROPANOL**

EC50 - for Crustacea

193 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

520 mg/l/72h Scenedesmus subspicatus

1,2-BENZISOTIAZOL-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)

(Z)-9-OCTADECEN-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)

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)

2-AMINO-2-BUTAN-1-OL

LC50 - for Fish

270 mg/l/96h Leuciscus idus (OECD 203)

EC50 - for Crustacea

115 mg/l/48h Daphnia magna (OECD 202)

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

Rapidly degradable

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

Rapidly degradable

85% - 28d (OECD 301/B)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Solubility in water

Insoluble

Entirely degradable

2-(2-BUTOXYETHOXY)ETHANOL

Rapidly degradable

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

**2-AMINOETHANOL**

Solubility in water

Miscible

Rapidly degradable

> 90% - 28d

2-AMINO-2-METHYLPROPANOL

Solubility in water

Miscible

Rapidly degradable

89,3% - 28d (OECD TG 301F)

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

Rapidly degradable

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

Rapidly degradable

> 70% (OECD 301 B - CO2 Evolution)

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

Rapidly degradable

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

HEXADECAN- L-OL, ETHOXYLATED

Rapidly degradable

87% - 28d (OECD 301/F)

2-AMINO-1-BUTAN-1-OL

Rapidly degradable

93% - 28d (OECD 301F)

DICYCLOHEXYLAMINE

Rapidly degradable

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

12.3. Bioaccumulative potential**2-METHYLISOTIAZOL-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

2-AMINO-2-METHYLPROPANOL

Partition coefficient: n-octanol/water

-0,63 (OECD 107)

BCF

320

1,2-BENZISOTIAZOL-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)

**2-AMINOBTAN-1-OL**

Partition coefficient: n-octanol/water

-0,45 Log Kow

BCF

< 100

DICYCLOHEXYLAMINE

Partition coefficient: n-octanol/water

2,72 Log Kow (25°C - OECD 117)

BCF

459

12.4. Mobility in soil

Information not available.

12.5. Results of PBT and vPvB assessmentOn the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.**12.6. Endocrine disrupting properties**

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

12.7. Other adverse effects

Information not available.

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

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

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

Not applicable.

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None.

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

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls

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

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

WGK 3: severe 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
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
Asp. Tox. 1	Aspiration hazard, category 1
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1	Skin corrosion, category 1
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2



STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
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.
H411	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

**CENTRO DISTRIBUZIONE UTENSILI SPA****PERFORMA 50 E/BD**

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EN

- 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 in accordance with 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

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 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
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 - IFA GESTIS website
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 - 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 / 15 / 16.