PERFORMA DUE MD

Revision nr 3

Dated 21/01/2020

Printed on 21/01/2020

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Replaced revision:2 (Dated: 05/02/2019)

Safety Data Sheet According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

U01010 Code:

PERFORMA DUE MD Product name

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

Emulsifiable metalworking fluid for mechanical machining. Intended use

Different uses than those intended. Uses advised against:

1.3. Details of the supplier of the safety data sheet

CENTRO DISTRIBUZIONE UTENSILI SCPA

Full address Via delle Gerole, 19 20867 CAPONAGO (MB) District and Country

ITALIA

tel. +39 02 95746081 fax. + 39 02 95745182

e-mail address of the competent person

info@cdu.net responsible for the Safety Data Sheet

Product distribution by: Centro Distribuzione Utensili Scpa

1.4. Emergency telephone number

+39 02 95746081 during office hours 8.30-12.30 - 13.30-17.30 For urgent inquiries refer to

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

H319 Eye irritation, category 2 Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms:



WARNING Signal words:

Hazard statements:

H319 Causes serious eye irritation.

Contains: N,N-BIŚ(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE (MIXTURE) **EUH208**

May produce an allergic reaction.

Precautionary statements:

P280 Wear eye protection / face protection. ΕN



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P337+P313

If eye irritation persists: Get medical advice / attention.

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

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

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

CAS 64742-53-6 $48,53 \le x \le 53,53$ Asp. Tox. 1 H304, Classification note according to Annex VI to the CLP

EC 265-156-6 Regulation: L

INDEX 649-466-00-2 Reg. no. 01-2119480375-34

SULFONIC ACIDS, PETROLEUM, SODIUM SALTS

CAS 68608-26-4 $3,71 \le x \le 6,71$ Eye Irrit. 2 H319

EC 271-781-5 INDEX -

Reg. no. 01-2119527859-22

FATTY ACIDS, TALL-OIL, POTASSIUM SALTS

CAS 61790-44-1 $1,96 \le x \le 3,96$ Eye Irrit. 2 H319

EC 263-136-1 INDEX -

2-METHYLPENTANE-2,4-DIOL

CAS 107-41-5 1,46 \leq x \leq 3,46 Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC 203-489-0

INDEX 603-053-00-3

Reg. no. 01-2119539582-35

2-PHENOXYETHANOL

CAS 122-99-6 1,97 \leq x \leq 2,97 Acute Tox. 4 H302, Eye Irrit. 2 H319

EC 204-589-7 INDEX 603-098-00-9

Reg. no. 01-2119488943-21

POTASSIUM 5-CARBOXY-4-HEXYLCYCLOHEX-2-ENE-1-OCTANOATE

CAS 68227-50-9 1,47 \leq x \leq 2,47 Eye Dam. 1 H318, Skin Irrit. 2 H315

EC 269-362-7 INDEX -

2-(2-BUTOXYETHOXY)ETHANOL

CAS 112-34-5 $0.79 \le x \le 1.79$ Eye Irrit. 2 H319

EC 203-961-6 INDEX 603-096-00-8 Reg. no. 01-2119475104-44

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

CAS 110-25-8 0,18 ≤ x ≤ 0,58 Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1

H400 M=1

EC 203-749-3

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Reg. no. 01-2119488991-20

N,N-BIS(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE (MIXTURE)

CAS - $0.10 \le x \le 0.50$

Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic

Chronic 2 H411

EC 939-700-4

INDEX -

Reg. no. 01-2119982395-25

ETHYLENE GLYCOL

CAS 107-21-1 0,01 ≤ x ≤ 0,13 Acute Tox. 4 H302, STOT RE 2 H373

EC 203-473-3

INDEX 603-027-00-1

Reg. no. 01-2119456816-28

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

CAS 3811-73-2 0,01 ≤ x ≤ 0,05 Acute Tox. 3 H311, Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319,

Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=100

EC 223-296-5

INDEX -

Reg. no. 01-2119493385-28

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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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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 for mechanical machining.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

	parameters	
Regulatory Re	ferences:	
AUS	Osterreich	Grenzwerteverordnung 2011 - GKV 2011
BEL	Belgique	AR du 11/3/2002. La liste est mise à jour pour 2010
BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА
		ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г
CHE	Suisse / Schweiz	Valeurs limites d`exposition aux postes de travail 2014. / Grenzwerte am Arbeitsplatz
CYP	Κύπρος	K.Δ.Π. 268/2001; K.Δ.Π. 55/2004; K.Δ.Π. 295/2007; K.Δ.Π. 70/2012
CZE	Česká Republika	Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2017
EST	Eesti	Töökeskkonna keemiliste ohutegurite piirnormid 1. Vastu võetud 18.09.2001 nr 293 RT l
		2001, 77, 460 - Redaktsiooni jõustumise kp: 01.01.2008
FIN	Suomi	HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveysministeriön julkaisuja
		2012:5
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
HRV	Hrvatska	NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról
IRL	Éire	Code of Practice Chemical Agent Regulations 2011
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81



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LTU	Lietuva	DĖL LIETUVOS HIGIENOS NORMOS HN 23:2007 CHEMINIŲ MEDŽIAGŲ 2007 m. spalio 15 d. Nr. V-827/A1-287
LUX	Luxembourg	Règlement grand-ducal du 28 juillet 2011 modifiant le règlement grand-ducal modifié du 30 juillet 2002 concernant la protection de la santé et de la sécurité des travailleurs contre les risques liés à des agents chimiques sur le lieu de travail
LVA	Latvija	Ķīmisko vielu aroda ekspozīcijas robežvērtības (AER) darba vides gaisā 2012
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
NOR	Norge	Veiledning om Administrative normer for forurensning i arbeidsatmosfære
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 7 czerwca 2017 r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de
		protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição
		a agentes químicos no trabalho - Diaro da Republica I 26; 2012-02-06
ROU	România	Monitorul Oficial al României 44; 2012-01-19
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 20. júna 2007
SVN	Slovenija	Uradni list Republike Slovenije 04.06.2015 (1602) - Pravilnik o spremembah in dopolnitvah
		Pravilnika o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
SWE	Sverige	Occupational Exposure Limit Values, AF 2011:18
TUR	Türkiye	KİMYASAL MADDELERLE ÇALIŞMALARDA SAĞLIK VE GÜVENLİK ÖNLEMLERİ
	•	HAKKINDA YÖNETMELİK - Resmi Gazete Tarihi: 12.08.2013 Resmi Gazete Sayısı: 28733
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC										
Health - Derived no-effect level - DNEL / DMEL										
		Effects on workers								
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic		
				systemic		systemic		systemic		
Inhalation 5,4 mg/m3 VND										

There are a last threatened to			2-METHYLPE	NTANE-2,4-DIOL			
Threshold Limit Value Type	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
MAK	AUS	49	10	49	10		
/LEP	BEL	123	25				
/LE	CHE	49	10	98	20		
MAK	CHE	49	10	98	20		
MAK	DEU	49	10	98	20	INHAL	
TLV	DNK	125	25				
VLA	ESP			123	25		
HTP	FIN	120	25	200	40		
VLEP	FRA			125	25		
WEL	GBR	123	25	123	25		
OEL	IRL			125	25		
NDS	POL			120 (C)			
TLV-ACGIH				10		INHAL	
TLV-ACGIH			25		50		
Predicted no-effect concentr	ration - PNEC						
Normal value in fresh water				0,429		mg/l	
Normal value in marine wate	er			0,0429		mg/l	
Normal value for fresh wate	r sediment			1,79		mg/kg	



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Normal value for marine water sediment	0,179	mg/kg	
Normal value for water, intermittent release	4,29	mg/l	
Normal value of STP microorganisms	20	mg/l	
Normal value for the terrestrial compartment	0,11	mg/kg	

Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers									
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral			VND	1 mg/kg bw/d					
Inhalation Skin	49 mg/m3	VND	25 mg/m3 VND	3,5 mg/m3 1 mg/kg bw/d	98 mg/m3	VND	49 mg/m3 VND	14 mg/m3 2 mg/kg bw/d	

			2-PHENO	XYETHANOL			
Threshold Limit Va							
Туре	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
MAK	AUS	110	20	110	20		
VLE	CHE	110	20	220	40	SKIN	
MAK	CHE	110	20	220	40	SKIN	
MAK	DEU	110	20	220	40	SKIN	
HTP	FIN	110	20	290	50	SKIN	
NDS	POL	230					
MV	SVN	110	20	110	20	SKIN	
Predicted no-effect cor	ncentration - PNEC						
Normal value in fresh	water			0,943		mg/l	
Normal value in marine	e water			0,0943		mg/l	
Normal value for fresh	water sediment			7,237		mg/kg	
Normal value for marir	ne water sediment			0,7237		mg/kg	
Normal value for water	r, intermittent release			3,44		mg/l	
Normal value of STP r	nicroorganisms			24,8		mg/l	
Normal value for the te	errestrial compartment			1,26		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		9,23 mg/kg		9,23 mg/kg						
Inhalation	2,5		2,41	2,41 mg/m3			5,7 mg/m3	5,7 mg/m3		
Skin				10,42 mg/kg				20,83 mg/kg		

		2	-(2-BUTOXYE ⁻	THOXY)ETHANO	L		
Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
MAK	AUS	67,5	15	101,2	15		
VLEP	BEL	67,5	10	101,2	15		
VLE	CHE	67	10	101,2	15		
MAK	CHE	67	10	101,2	15		



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MAK	DEU	67	10	100,5	15			
TLV	DNK	100		200				
VLA	ESP	67,5	10	101,2	15			
HTP	FIN	68	10					
VLEP	FRA	67,5	10	101,2	15			
WEL	GBR	67,5	10	101,2	15			
TLV	GRC	67,5	10	101,2	15			
AK	HUN	67,5		101,2				
OEL	IRL	67,5	10	101,2	15	INHAL		
VLEP	ITA	67,5	10	101,2	15			
RD	LTU	67,5	10	101,2	15			
VL	LUX	67,5	10	101,2	15			
RV	LVA	67,5	10	101,2	15			
OEL	NLD	50		100		SKIN		
NDS	POL	67		100				
VLE	PRT	67,5	10	101,2	15			
TLV	ROU	150		250				
NPHV	SVK	67,5	10	101,2				
MV	SVN	67,5	10	101,25	15			
MAK	SWE	68	10	101	15			
ESD	TUR	67,5	10	101,2	15	INHAL		
OEL	EU	67,5	10	101,2	15			
TLV-ACGIH		67,5	10	101,2	15			
Predicted no-effect concentrati	on - PNEC							
Normal value in fresh water				1,1	m	g/l		
Normal value in marine water				0,11	m	g/l		
Normal value for fresh water se	ediment			4,4	m	g/kg		
Normal value for marine water	sediment			0,44	m	g/kg		
Normal value for water, intermi	ttent release			11	m	g/l		
Normal value of STP microorga	anisms			200	m	g/l		
Normal value for the food chair	n (secondary poisor	ning)		56	m	g/l		
Normal value for the terrestrial	compartment			0,32	m	g/kg		
Health - Derived no-effec	t level - DNEL / I Effects on con				Effects on wo	rkers		
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral								5 mg/kg
Inhalation	60,7 mg/m3		40,5 mg/m3	40,5 mg/m3	101,2 mg/m3		67,5 mg/m3	67,5 mg/m
Skin				50 mg/kg				83 mg/kg

Threshold Limit Value		(Z)-IN-IVIE I II I	L-N-(1-0X0-	9-OCTADECENT	LIGETCINE
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm



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MAK DEU 0,05 0,1 INHAL

N,N-BIS(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE (MIXTURE) Predicted no-effect concentration - PNEC							
Normal value in fresh water	0,000976	mg/l					
Normal value in marine water	0,0000976	mg/l					
Normal value for water, intermittent release	0,0000976	mg/l					
Normal value of STP microorganisms	0,69	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
Oral				0,2 mg/kg bw/d				
Inhalation				0,3 mg/m3			VND	1,3 mg/m3
Skin				0,2 mg/kg bw/d			VND	0,4 mg/kg bw/d

ETHYLENE GLYCOL									
Threshold Limit Va	Country	TWA/8h	STEL/15min	STEL /15min					
		mg/m3	ppm	mg/m3	ppm				
		-				2.00			
MAK	AUS	26	10	52	20	SKIN			
TLV	BGR	52		104		SKIN			
VLE	CHE	26	10	52	20	SKIN			
MAK	CHE	26	10	52	20	SKIN			
TLV	CYP	52	20	104	40	SKIN			
TLV	CZE	50		100		SKIN			
MAK	DEU	26	10	52	20	SKIN			
TLV	DNK	26	10			SKIN			
VLA	ESP	52	20	104	40	SKIN			
TLV	EST	52	20	104	40	SKIN			
HTP	FIN	50	20	100	40	SKIN			
VLEP	FRA	52	20	104	40	SKIN			
WEL	GBR	52	20	104	40				
TLV	GRC	125	50	125	50				
GVI	HRV	52	20	104	40	SKIN			
AK	HUN	52		104					
OEL	IRL	52	20	104	40	SKIN			
VLEP	ITA	52	20	104	40	SKIN			
RD	LTU	25	10	50	20	SKIN			
VL	LUX	52	20	104	40	SKIN			
RV	LVA	52	20	104	40	SKIN			
OEL	NLD	52		104		SKIN			
TLV	NOR		25			SKIN			
NDS	POL	15		50					



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systemic

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systemic

106 mg/kg

VND

35 mg/m3

VND

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VLE	PRT	52	20	104	40	SKIN		
TLV	ROU	52	20	104	40	SKIN		
NPHV	SVK	52	20	104		SKIN		
MV	SVN	52	20	104	40	SKIN		
MAK	SWE	25	10	50	20	SKIN		
ESD	TUR	52	20	104	40	SKIN		
OEL	EU	52	20	104	40	SKIN		
TLV-ACGIH			25		50			
TLV-ACGIH				10		INHAL		
Predicted no-effect concer	ntration - PNEC							
Normal value in fresh water	er			10	mg/l			
Normal value in marine wa	1	mg/l						
Normal value for fresh wa	37	mg/kg						
Normal value for marine water sediment				3,7	mg/kg			
Normal value for water, intermittent release				10	mg/l			
Normal value of STP micro	199,5	mg/l						
Normal value for the terres	1,53	mg/kg						
Health - Derived no-e	ffect level - DNEL / Effects on cor				Effects on work	ers		
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT									
Threshold Limit Valu	ie .			·					
Туре	Country	TWA/8h		STEL/15min					
		mg/m3	ppm	mg/m3	ppm				
MAK	AUS	1		4					
MAK	CHE	1		2		INHAL			
AGW	DEU	1		2		INHAL			
MAK	DEU	1		2		INHAL			
TLV	DNK	1		2					
TLV-ACGIH		0,35							

VND

systemic

53 mg/kg

Inhalation

Skin

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

7 mg/m3

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).

VND

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.

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SKIN PROTECTION

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

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

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

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

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

ENVIRONMENTAL EXPOSURE CONTROLS

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance clear liquid Colour emerald Odour almond Odour threshold Not available 9,3 - 9,7 (Sol. 5%) Melting point / freezing point Not available Initial boiling point Not available Not available Boiling range > 100 °C Flash point **Evaporation Rate** Not available Flammability of solids and gases Not applicable Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not applicable Upper explosive limit Not applicable Not available Vapour pressure

Relative density 0,94 - 0,96 Kg/l (20°C) Solubility emulsifiable in water

Not available

Partition coefficient: n-octanol/water Not available
Auto-ignition temperature Not available
Decomposition temperature Not available

Viscosity >20,5 mm2/sec (40°C)

Explosive properties Not applicable
Oxidising properties Not available

9.2. Other information Information not available.

SECTION 10. Stability and reactivity

10.1. Reactivity

Vapour density

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

2-PHENOXYETHANOL

In acqua al 1% reagisce debolmente acido (pH=6).

ETHYLENE GLYCOL

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

2-PHENOXYETHANOL

May form explosive mixtures with: air.

2-(2-BUTOXYETHOXY)ETHANOL

May react dangerously with: strong oxidising agents. Develops hydrogen on contact with: light metals.

ETHYLENE GLYCOL

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

10.4. Conditions to avoid

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

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Avoid exposure to: sources of heat.

2-PHENOXYETHANOL

Avoid exposure to: moist air, heat, light.

ETHYLENE GLYCOL

Avoid exposure to: sources of heat, naked flames.

10.5. Incompatible materials

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Incompatible with: oxidising agents. 2-METHYLPENTANE-2,4-DIÖL

Avoid contact with: strong oxidising agents, acids.

2-PHENOXYETHANOL

Incompatible with: strong oxidants. 2-(2-BUTOXYETHOXY) ETHANOL

Incompatible with: strong oxidising agents.

10.6. Hazardous decomposition products

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

When heated to decomposition releases: carbon monoxide, hydrogen sulfide, sulphur oxides, sulphuric acid.

2-METHYLPENTANE-2,4-DIOL

When heated to decomposition releases: carbon oxides, sulphur oxides.

ETHYLENE GLYCOL

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

SECTION 11. Toxicological information

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

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

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information Information not available.

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Information on likely routes of exposure

2-(2-BUTOXYETHOXY)ETHANOL

WORKERS: inhalation; contact with the skin.

ETHYLENE GLYCOL

WORKERS: inhalation; contact with the skin.

POPULATION: room air inhalation: skin contact with products containing the substance.

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.

ETHYLENE GLYCOL

By ingestion it initially stimulates the central nervous system; subsequently a phase of depression takes over. Kidney damage can occur, with anuria and uremia. The symptoms of overexposure are: vomiting, drowsiness, difficult breathing, convulsions. The lethal dose for humans is approximately 1.4 ml/ kg.

Interactive effects

Information not available.

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture:

>2000 ma/ka

LD50 (Dermal) of the mixture:

Not classified (no significant component)

SULFONIC ACIDS, PETROLEUM, SODIUM SALTS

LD50 (Oral)

> 2000 mg/kg Rat

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

LD50 (Oral) LC50 (Inhalation) > 5000 mg/kg Rat

1,8 mg/l/4h Rat

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

LD50 (Oral) LD50 (Dermal) > 5000 mg/kg Rat (API - 1986a)

LC50 (Inhalation)

> 5000 mg/kg Rabbit (API - 1982) > 5,53 mg/l/4h Rat (EMBSI - 1988a)

2-PHENOXYETHANOL

LD50 (Oral) LD50 (Dermal) 1850 mg/kg Rat (OECD - 401)

> 5000 mg/kg bw Rabbit

2-(2-BUTOXYETHOXY)ETHANOL

LD50 (Oral) LD50 (Dermal) LC50 (Inhalation) 2410 mg/kg Rat (OECD-401)

2764 mg/kg Rabbit (OECD-402)

> 29 ppm/2h Rat

ETHYLENE GLYCOL

LD50 (Oral) 7712 mg/kg Rat LD50 (Dermal) > 3500 mg/kg Mouse

> 2,5 mg/l Rat LC50 (Inhalation)

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

LD50 (Oral) 1500 mg/kg Rat LD50 (Dermal) 1800 mg/kg Rabbit 2,7 mg/l/4h Rat LC50 (Inhalation)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class.

SERIOUS EYE DAMAGE / IRRITATION

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Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: N,N-BIS(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE (MIXTURE).

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class.

ETHYLENE GLYCOL

The available studies have not shown carcinogenic power. In a 2-year carcinogenicity study, conducted by the US National Toxicology Program (NTP), in which ethylene glycol was administered in feeding, "no evidence of carcinogenic activity" was observed in male and female B6C3F1 mice (NTP, 1993).

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)

SECTION 12. Ecological information

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

12.1. Toxicity

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

LC50 - for Fish > 1 mg/l Fish

EC50 - for Crustacea 0,43 mg/l/48h Daphnia EC50 - for Algae / Aquatic Plants 6,3 mg/l/72h Algae

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

> 100 mg/l/96h Fish LC50 - for Fish

Chronic NOEC for Crustacea 10 mg/l

2-PHENOXYETHANOL

> 100 mg/l/96h Pimephales promelas LC50 - for Fish EC50 - for Crustacea > 100 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Scenedesmus subspicatus > 1 mg/l Daphnia magna (OECD - 211) Chronic NOEC for Crustacea

2-(2-BUTOXYETHOXY)ETHANOL

LC50 - for Fish 1300 mg/l/96h Lepomis macrochirus (OECD 201)



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EC50 - for Crustacea

> 100 mg/l/48h Daphnia magna (OECD 203)

ETHYLENE GLYCOL

EC50 - for Crustacea

LC50 - for Fish 72860 mg/l/96h Pimephales promelas

> 100 mg/l/48h Daphnia magna

2-METHYLPENTANE-2,4-DIOL

LC50 - for Fish 8690 mg/l/96h Pimephales promelas

EC50 - for Algae / Aquatic Plants > 429 mg/l/72h Pseudokirchnerella subcapitata

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

LC50 - for Fish 0,0066 mg/l/96h

N,N-BIS(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE (MIXTURE) LC50 - for Fish 1,3 mg/l/96h (OECD - 203)

EC50 - for Crustacea 2,05 mg/l/48h

12.2. Persistence and degradability

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

Rapidly degradable

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC Solubility in water Insoluble

Entirely degradable

2-PHENOXYETHANOL

Solubility in water 24000 mg/l

Rapidly degradable

2-(2-BUTOXYETHOXY)ETHANOL

Rapidly degradable

ETHYLENE GLYCOL

Solubility in water 1000 -10000 mg/l

Rapidly degradable

2-METHYLPENTANE-2,4-DIOL

Solubility in water > 10000 mg/l

Rapidly degradable

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

Rapidly degradable

POTASSIUM 5-CARBOXY-4-HEXYLCYCLOHEX-2-ENE-1-OCTANOATE

NOT rapidly degradable

N,N-BIS(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE (MIXTURE)

Solubility in water Insoluble

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NOT rapidly degradable

7% (28d) OECD 301/B

12.3. Bioaccumulative potential

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC Partition coefficient: n-octanol/water > 2 Log Kow

< 500

2-PHENOXYETHANOL

Partition coefficient: n-octanol/water 1,2

2-(2-BUTOXYETHOXY)ETHANOL

Partition coefficient: n-octanol/water 1 Log Kow (20°C pH 7 - OCSE 117)

ETHYLENE GLYCOL

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

2-METHYLPENTANE-2,4-DIOL

Partition coefficient: n-octanol/water < -0.14

N,N-BIS(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE (MIXTURE)

Partition coefficient: n-octanol/water 7.5

12.4. Mobility in soil

2-(2-BUTOXYETHOXY)ETHANOL

Partition coefficient: soil/water 1

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 greater than 0,1%.

12.6. Other adverse effects

Information not available.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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

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

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

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

14.1. UN number

Not applicable.

14.2. UN proper shipping name

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

Information not relevant.

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: None.

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

Product

Point

Contained substance

Point 55 2-(2-BUTOXYETHOXY)ETHANOL Reg. no.: 01-2119475104-44

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

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

No a chemical safety assessment has been performed for the mixture.

SECTION 16. Other information

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

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Acute Tox. 3 Acute toxicity, category 3

Acute Tox. 4 Acute toxicity, category 4

Asp. Tox. 1 Aspiration hazard, category 1

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

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2
Skin Sens. 1B Skin sensitization, category 1B

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H311 Toxic in contact with skin.
H302 Harmful if swallowed.
H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

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

H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

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GENERAL BIBLIOGRAPHY

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- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
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- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
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- 14. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

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

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

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

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

Changes to previous review: The following sections were modified: 01 / 03 / 08 / 09 / 10 / 11 / 12 / 15 / 16.