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# Safety data sheet

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

Code:U01215Product namePERFORMA 20 E/BD	
<b>1.2. Relevant identified uses of the substance or mixture and uses advised against</b> 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 sheetCENTRO DISTRIBUZIONE UTENSILI SCPANameCENTRO DISTRIBUZIONE UTENSILI SCPAFull addressVia delle Gerole, 19District and Country20867 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      Product distribution by:    Centro Distribuzione Utensili Scpa	
1.4. Emergency telephone number      For urgent inquiries refer to      +39 02 95746081 during office hours 8.30-12.30 - 13.30-17.30	

# **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 EC Regulation 1907/2006 and subsequent amendments. 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 sensitization, category 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity,	H412	Harmful to aquatic life with long lasting effects.
category 3		

#### 2.2. Label elements

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

Hazard pictograms:



Signal words:

WARNING

Hazard statements: H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. EUH208 Contains: REACTION MASS OF 1H-BENZOTRIAZOLE-1-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-6-METHYL- AND 2H-

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BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-5-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-4-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-4-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE 2-METHYL-4-ISOTHIAZOLIN-3-ONE , 1,2-BENZISOTHIAZOL-3(2H)-ONE May produce an allergic reaction.

Precautionary statements:

P261	Avoid breathing dust / fume / gas / mist / vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection / face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P337+P313	If eye irritation persists: Get medical advice / attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
	-

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

#### 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**

**3.1. Substances** Information not relevant.

3.2. Mixtures Contains: Identification DISTILLATES (PETROLEUM), HYDROTREATED LI CAS 64742-53-6	x=Conc. % IGHT NAPHTHENIC 35 ≤ x ≤ 39	Classification 1272/2008 (CLP) Asp. Tox. 1 H304, Note H L
EC 265-156-6		
INDEX 649-466-00-2		
Reg. no. 01-2119480375-34		
ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXY	LATED	
CAS 68920-66-1 EC 500-236-9	4,73 ≤ x ≤ 6,73	Skin Irrit. 2 H315, Aquatic Chronic 2 H411, Note P
INDEX -		
Reg. no. 01-2119489407-26		
ETHOXYLATED OLEOAMIDE		
CAS 26027-37-2	1,28 ≤ x ≤ 2,28	Eye Irrit. 2 H319
EC 607-851-2		
INDEX -		
2-(2-BUTOXYETHOXY)ETHANOL		
CAS 112-34-5	0,62 ≤ x ≤ 1,62	Eye Irrit. 2 H319
EC 203-961-6		
INDEX 603-096-00-8		
Reg. no. 01-2119475104-44		
FATTY ACIDS, TALL-OIL, REACTION PRODUCTS CAS -	WITH ACRYLIC AC 0,6 ≤ x ≤ 1,6	I <b>D</b> Eye Dam. 1 H318, Skin Irrit. 2 H315
EC 939-424-4		1010
INDEX -		
Reg. no. 01-2119972299-21		
ETHANOLAMINE		

<b>S</b> framma	CENTRO DISTRIBU	ZIONE UTENSILI SCPA	Revision nr. 3 Dated 07/08/2019	EN
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CAS 141-43-5	0,56 ≤ x ≤ 0,96	Acute Tox. 4 H302, Acute Tox. 4 H3 1C H314, STOT SE 3 H335, Aquati		
EC 205-483-3 INDEX 603-030-00-8		10 H314, 3101 SE 3 H333, Aquali		
Reg. no. 01-2119486455-28				
(Z)-N-METHYL-N-(1-OXO-9-OCTADEC	CENYL)GLYCINE			
CAS 110-25-8	$0,5 \le x \le 0,9$	Acute Tox. 4 H332, Eye Dam. 1 H3 Acute 1 H400 M=1	18, Skin Irrit. 2 H315, Aquatic	
EC 203-749-3 INDEX -				
Reg. no. 01-2119488991-20				
2-METHYL-4-ISOTHIAZOLIN-3-ONE				
CAS 2682-20-4	0,100 ≤ x ≤ 0,365	Acute Tox. 3 H331, Acute Tox. 4 H3		
EC 220-239-6		SE 3 H335, Skin Sens. 1 H317, Aqu		
INDEX -				
1,2-BENZISOTHIAZOL-3(2H)-ONE				
CAS 2634-33-5	0,100 ≤ x ≤ 0,365	Acute Tox. 4 H302, Eye Dam. 1 H3 1A H317, Aquatic Acute 1 H400 M=		
EC 220-120-9				
INDEX 613-088-00-6				
REACTION MASS OF 1H-BENZOTRIA METHANAMINE, N,N-BIS(2-ETHYLHE AND 2H-BENZOTRIAZOLE-2-METHAN BENZOTRIAZOLE-1-METHYLAMINE	XYL)-5-METHYL- AND N,N-BIS(2 JAMINE, N,N-BIS(2-ETHYLHEXY	-ÈTHYLHEXYL)-4-́METHYL-1H-BEN L)-4-METHYL- AND N,N-BIS(2-ETH)	IZOTRIAZOLE-1-METHYLAMINE /LHEXYL)-5-METHYL-1H-	E
CAS -	0,1 ≤ x ≤ 0,3	Skin Irrit. 2 H315, Skin Sens. 1B H3 Aquatic Chronic 2 H411	17, Aquatic Acute 1 H400 M=1,	
EC 939-700-4				
INDEX -				
Reg. no. 01-2119982395-25				
ETHANEDIOL				
CAS 107-21-1 EC 203-473-3	$0,01 \le x \le 0,05$	Acute Tox. 4 H302, STOT RE 2 H3	73	
INDEX 603-027-00-1				
Reg. no. 01-2119456816-28				
FATTY ALCOHOL ALKOXYLATED				
CAS	0,01 ≤ x ≤ 0,04	Skin Irrit. 2 H315, Aquatic Acute 1 H H411	1400 M=10, Aquatic Chronic 2	
EC				
INDEX -				
PYRIDINE-2-THIOL 1-OXIDE, SODIUN				
CAS 3811-73-2	0,01 ≤ x ≤ 0,018	Acute Tox. 4 H302, Acute Tox. 4 H3 2 H319, Skin Irrit. 2 H315, Aquatic A		
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			

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. If the product is flammable, use explosion-proof equipment. 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.



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Storage class TRGS 510 (Germany): 10

### 7.3. Specific end use(s)

Emulsifiable metalworking fluid mechanical machining.

# SECTION 8. Exposure controls/personal protection

	r <b>ol parameters</b> References:	
BEL	Belgique	AR du 11/3/2002. La liste est mise à jour pour 2010
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail 2014. / Grenzwerte am Arbeitsplatz
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
DEC	Danmark	
		Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
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
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
POL	Polska	ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de
	0	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
EU	OEL EU	Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC;
20	022.20	Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2016
		A00112010

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC										
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							5,4 mg/m3	VND		

		-			
Threshold Limit Value		4	-(2-6010X1E	THOXY)ETHANO	L
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
VLEP	BEL	67,5	10	101,2	15
MAK	CHE	67	10	101,2	15
AGW	DEU	67	10	100,5	15
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
VLEP	ITA	67,5	10	101,2	15
OEL	NLD	50		100	
NDS	POL	67		100	
VLE	PRT	67,5	10	101,2	15
OEL	EU	67,5	10	101,2	15

ΕN



50,6 mg/m3

Inhalation

Skin

# **CENTRO DISTRIBUZIONE UTENSILI SCPA**

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67,5 mg/m3

67,5 mg/m3

20 mg/kg

TLV-ACGIH		67,5	10	101,2	15			
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				1	m	g/I		
Normal value in marine water				0,1	m	mg/l		
Normal value for fresh water see	liment			4	m	mg/kg		
Normal value for water, intermitt	ent release			3,9	m	mg/l		
Normal value for the terrestrial c	ompartment			0,4	m	g/kg		
Health - Derived no-effect	evel - DNEL / D	OMEL						
	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				1,25 mg/kg				

34 mg/m3

10 mg/kg

101,2 mg/m3

34 mg/m3

Predicted no-effect concentra		ACIDS, TALL-OI	L, REACTION	PRODUCTS V	VITH ACRYLIC	ACID		
Normal value in fresh water					0,015 mg/l			
Normal value in marine water					mg	mg/l		
Normal value for fresh water s		25	mg	mg/kg				
Normal value for marine wate		2,5	mç	mg/kg				
Normal value of STP microor	ganisms			9800	mç	mg/l		
Health - Derived no-effe	ct level - DNEL / C Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation							NPI	3,19 mg/m3
Skin							NPI	0,9 mg/kg bw/d

			ETHAN	OLAMINE		
Threshold Limit Value	Country	TWA/8h		STEL/15min		
Туре	Country					
		mg/m3	ppm	mg/m3	ppm	
VLEP	BEL	2,5	1	7,6	3	SKIN
MAK	CHE	5	2	10	4	
AGW	DEU	5,1	2	10,2	4	SKIN
MAK	DEU	5,1	2	10,2	4	
TLV	DNK	2,5	1			SKIN
VLA	ESP	2,5	1	7,5	3	SKIN
HTP	FIN	2,5	1	7,6	3	SKIN
VLEP	FRA	2,5	1	7,6	3	SKIN
WEL	GBR	2,5	1	7,6	3	SKIN
VLEP	ITA	2,5	1	7,6	3	SKIN
OEL	NLD	2,5		7,6		SKIN
NDS	POL	2,5		7,5		
VLE	PRT	2,5	1	7,6	3	SKIN

ΕN



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OEL	EU	2,5	1	7,6	3	SKIN		
TLV-ACGIH		7,5	3	15	6			
Predicted no-effect concentra	tion - PNEC							
Normal value in fresh water				0,085	m	ng/l		
Normal value in marine water				0,0085	m	ng/l		
Normal value for fresh water s	sediment			0,425	m	ig/kg		
Normal value for marine wate	r sediment			0,0425	0,0425 mg/kg			
Normal value for water, interm	nittent release			0,025 mg/l				
Normal value of STP microorg	ganisms			100	m	ng/l		
Normal value for the terrestria	l compartment			0,035	m	ig/kg		
Health - Derived no-effect	t level - DNEL / Effects on consumers	DMEL			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 mg/m3	2			3,3 mg/m3	3,3
Skin				0,24 mg/kg				1 mg/kg

		(Z)-N-METHYL	-N-(1-OXO-9-00	CTADECENYL)	GLYCINE		
Threshold Limit Value Type	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
MAK	DEU	0,1		0,2		INHAL	

#### REACTION MASS OF 1H-BENZOTRIAZOLE-1-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-6-METHYL- AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-5-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-4-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-4-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE

Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,000976	mg	/I		
Normal value in marine water				0,0000976	mg	/I		
Normal value for water, intermi	ittent release			0,0000976	mg	/I		
Normal value of STP microorga	anisms			0,69	mg	/I		
Health - Derived no-effec	t level - DNEL / C Effects on consumers Acute local	Acute systemic	Chronic local	Chronic	Effects on workers Acute local	Acute	Chronic local	Chronic
Oral				systemic 0,2 mg/kg bw/d		systemic		systemic
Inhalation				0,3 mg/m3			0,3	1,3 mg/m3
Skin				0,2 mg/kg bw/d			0,2	0,4 mg/kg bw/d

			ETHA	NEDIOL		
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
МАК	CHE	26	10	52	20	SKIN
AGW	DEU	26	10	52	20	SKIN
MAK	DEU	26	10	52	20	SKIN



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VND

106 mg/kg

		Г						
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TLV	DNK	26	10			SKIN		
VLA	ESP	20 52	20	104	40	SKIN		
	FIN	52 50	20	104		SKIN		
					40	-		
VLEP	FRA	52	20	104	40	SKIN		
WEL	GBR	52	20	104	40			
VLEP	ITA	52	20	104	40	SKIN		
OEL	NLD	52		104		SKIN		
NDS	POL	15		20				
VLE	PRT	52	20	104	40	SKIN		
OEL	EU	52	20	104	40	SKIN		
TLV-ACGIH				100 (C)				
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				10	mg	/I		
Normal value in marine water				1	mg	/I		
Normal value for fresh water se	diment			37	mg	/kg		
Normal value for marine water s	sediment			3,7	mg	/kg		
Normal value for water, intermit	tent release			10	mg	/I		
Normal value of STP microorga	nisms			199,5	mg	/I		
Normal value for the terrestrial	compartment			1,53	mg	/kg		
Health - Derived no-effect	level - DNEL / D	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	VND	7 mg/m3		2,0000		-,	35 mg/m3	VND

Skin

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.

53 mg/kg

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.

VND

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 Directive 89/686/EEC 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 137). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTÁL EXPOSURE CONTROLS



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

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

# **SECTION 9.** Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties Appearance clear liquid Colour amber Odour characteristic Odour threshold Not available pН 9,5 - 9,7 Sol. 5% Melting point / freezing point Not available Initial boiling point > 100 °C Boiling range Not available Flash point > 80 °C 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 Vapour pressure Not available Vapour density Not available Relative density 0,96 - 0,98 kg/l (20°C) emulsifiable in water Solubility Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not available Decomposition temperature Not available >20,5 mm2/sec (40°C) Viscosity Explosive properties Not applicable Oxidising properties Not available 9.2. Other information VOC (Directive 2010/75/EC) : 2,00 % - 19,52 g/litre **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

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

#### ETHANEDIOL

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-(2-BUTOXYETHOXY)ETHANOL

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

**ETHANOLAMINE** 

May react dangerously with: acrylonitrile, chloroepoxypropane, chlorosulphuric acid, hydrogen chloride, iron-sulphur compounds, acetic acid, acetic anhydride, mesityl oxide, nitric acid, sulphuric acid, strong acids, vinyl acetate, cellulose nitrate.

May react with: oxidising agents, acids, organic halides, acid chlorides, acid anhydrides.

ETHANEDIOL

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



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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. ETHANOLAMINE Decomposes if exposed to: high temperatures. Avoid exposure to: moist air. ETHANEDIOL Avoid exposure to: sources of heat,naked flames. FATTY ALCOHOL ALKOXYLATED Avoid exposure to: heat, naked flames, electrostatic discharges.

#### 10.5. Incompatible materials

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC Keep away from: oxidising agents. ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED Avoid contact with: strong oxidising agents. ETHOXYLATED OLEOAMIDE Avoid contact with: strong oxidising agents. 2-(2-BUTOXYETHOXY)ETHANOL Incompatible with: oxidising substances,strong acids,alkaline metals. ETHANOLAMINE Avoid contact with: strong acids,strong oxidising agents. May react dangerously if exposed to: organic halides. FATTY ALCOHOL ALKOXYLATED Avoid contact with: strong oxidising agents.

#### 10.6. Hazardous decomposition products

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC When heated to decomposition releases: carbon monoxide, sulphuric acid, sulphur oxides. ETHOXYLATED OLEOAMIDE When heated to decomposition releases: irritating vapours. 2-(2-BUTOXYETHOXY)ETHANOL May develop: hydrogen. ETHANOLAMINE May develop: nitric oxide, carbon oxides. ETHANEDIOL 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

<u>Metabolism, toxicokinetics, mechanism of action and other information</u> Information not available.

Information on likely routes of exposure 2-(2-BUTOXYETHOXY)ETHANOL WORKERS: inhalation; contact with the skin.

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

Delayed and immediate effects as well as chronic effects from short and long-term exposure 2-(2-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.

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#### ETHANEDIOL

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

Interactive effects Information not available.

ACUTE TOXICITY LC50 (Inhalation) of the mixture: LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture:

2-METHYL-4-ISOTHIAZOLIN-3-ONE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

(Z)-N-METHYL-N-(1-OXO-9-OCTADECENYL)GLYCINE LD50 (Oral) LC50 (Inhalation)

ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED LD50 (Oral)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

2-(2-BUTOXYETHOXY)ETHANOL LD50 (Oral) LD50 (Dermal)

ETHANEDIOL LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

ETHANOLAMINE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

ETHOXYLATED OLEOAMIDE LD50 (Oral)

FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH ACRYLIC ACID LD50 (Oral)

1,2-BENZISOTHIAZOL-3(2H)-ONE LD50 (Oral) LD50 (Dermal)

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

SKIN CORROSION / IRRITATION

> 5 mg/lNot classified (no significant component) Not classified (no significant component) 391 mg/kg Rat 326 mg/kg Rabbit 0,11 mg/l/4h Rat > 5000 mg/kg Rat 1,8 mg/l/4h Rat > 2000 mg/kg Rat > 5000 mg/kg Rat (API - 1986a) > 5000 mg/kg Rabbit (API - 1982)
 > 5,53 mg/l/4h Rat (EMBSI - 1988a) 2410 mg/kg Rat 2764 mg/kg Rabbit 7712 mg/kg Rat > 3500 mg/kg Mouse > 2,5 mg/l Rat 1,515 mg/kg Rat (OECD - 401) 2504 mg/kg Rabbit (OECD - 402) 1,48 mg/l/4h Rat > 2000 mg/kg Rat 6176 mg/kg Rat

> 670 mg/kg Rat > 2000 mg/kg Rat

1500 mg/kg Rat 1800 mg/kg Rabbit 1,08 mg/l Rat EN

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Does not meet the classification criteria for this hazard class.

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation.

#### **RESPIRATORY OR SKIN SENSITISATION**

Sensitising for the skin. May produce an allergic reaction. Contains: MASS OF 1H-BENZOTRIAZOLE-1-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-6-METHYL- AND REACTION METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-5-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-4-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-4-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE

2-METHYL-4-ISOTHIAZOLIN-3-ONE 1,2-BENZISOTHIAZOL-3(2H)-ONE

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class.

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class.

#### **ETHANEDIOL**

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

REPRODUCTIVE TOXICITY Does not meet the classification criteria for this hazard class.

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**

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

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#### 12.1. Toxicity

2-METHYL-4-ISOTHIAZOLIN-3-ONE	
LC50 - for Fish	0,07 mg/l/96h Oncorhynchus m
EC50 - for Crustacea	0,18 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,158 mg/l/72h Algae
(Z)-N-METHYL-N-(1-OXO-9-OCTADECENYL)	)GLYCINE
LC50 - for Fish	10 mg/l Fish
EC50 - for Crustacea	0,43 mg/l/48h Daphnia
EC50 - for Algae / Aquatic Plants	6,3 mg/l/72h Algae
ALCOHOLS, C16-18 AND C18-UNSATD., ET	HOXYLATED
LC50 - for Fish	> 1 mg/l/96h
EC50 - for Crustacea	> 1 mg/l/48h Daphnia

2H-BENZOTRIAZOLE-2-



EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

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DISTILLATES (PETROLEUM), HYDROTR LC50 - for Fish	REATED LIGHT NAPHTHENIC > 100 mg/l/96h Fish
2-(2-BUTOXYETHOXY)ETHANOL LC50 - for Fish	1300 mg/l/96h Lepomis macrochirus
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna
ETHANEDIOL	
LC50 - for Fish	72860 mg/l/96h Pimephales promelas
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna
Chronic NOEC for Fish	15380 mg/l Pimephales promelas
Chronic NOEC for Crustacea	8590 mg/l Ceriodaphnia sp.
ETHANOLAMINE	
LC50 - for Fish	349 mg/l/96h Cyprinus carpio
EC50 - for Crustacea	27,04 mg/l/48h Daphnia magna (OECD - 202)
EC50 - for Algae / Aquatic Plants	2,8 mg/l/72h Pseudokirchneriella subcapitata (OECD - 201)
Chronic NOEC for Fish	1,2 mg/l Oryzias latipes (OECD - 210)
Chronic NOEC for Crustacea	0,85 mg/l/21d Daphnia magna (OECD- 211)
ETHOXYLATED OLEOAMIDE	
LC50 - for Fish	> 10 mg/l/96h Carassius auratus
EC50 - for Crustacea	> 10 mg/l/48h Daphnia
FATTY ACIDS, TALL-OIL, REACTION PR LC50 - for Fish	ODUCTS WITH ACRYLIC ACID 15 mg/l/96h
EC50 - for Crustacea	22,5 mg/l/48h Daphnia
EC50 - for Algae / Aquatic Plants	62,9 mg/l/72h Algae
1,2-BENZISOTHIAZOL-3(2H)-ONE	4.0
LC50 - for Fish	1,9 mg/l/96h
EC50 - for Crustacea	3,7 mg/l/48h Daphnia
EC50 - for Algae / Aquatic Plants	0,067 mg/l/72h Algae
PYRIDINE-2-THIOL 1-OXIDE, SODIUM S LC50 - for Fish	ALT 0,007 mg/l/96h
EC50 - for Algae / Aquatic Plants	0,009 mg/l/72h Selenastrum capricornutum
METHANAMINE, N,N-BIS(2-ETHYLHI	LE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-4-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-5-
EC50 - for Crustacea	2,05 mg/l/48h
FATTY ALCOHOL ALKOXYLATED LC50 - for Fish	1 mg/l/96h Orphe
	4

1 mg/l/48h

0,1 mg/l/72h



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Chronic NOEC for Crustacea	0,25 mg/l	
12.2. Persistence and degradability		
2-METHYL-4-ISOTHIAZOLIN-3-ONE		
NOT rapidly degradable.		
(Z)-N-METHYL-N-(1-OXO-9-OCTADEC	CENYL)GLYCINE	
Rapidly degradable.		
ALCOHOLS, C16-18 AND C18-UNSAT Solubility in water	D., ETHOXYLATED Insoluble	
NOT rapidly degradable.		
DISTILLATES (PETROLEUM), HYDRC Solubility in water	DTREATED LIGHT NAPHTHENIC Insoluble	
Entirely degradable.		
2-(2-BUTOXYETHOXY)ETHANOL		
Rapidly degradable.		
ETHANEDIOL		
Solubility in water	1000 - 10000 mg/l	
Rapidly degradable.		
ETHANOLAMINE		
Solubility in water	1000 mg/l	
Rapidly degradable		
ETHOXYLATED OLEOAMIDE		
Rapidly degradable.		
PYRIDINE-2-THIOL 1-OXIDE, SODIUM	SALT	
Degradability: information not available	<u>).</u>	
METHANAMINE, N,N-BIS(2-ETHYLHE)	ZOLE-1-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-6-METHYL- AND 2 XYL)-5-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-4-METHYL-1H-BENZC OLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-4-METHYL- AND N, HYLAMINE Insoluble	OTRIAZOLE-1-
NOT rapidly degradable.		
12.3. Bioaccumulative potential		
2-METHYL-4-ISOTHIAZOLIN-3-ONE Partition coefficient: n-octanol/water	0,119 Log Kow	

ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED > 3,8 Log Kow Partition coefficient: n-octanol/water

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC > 3 Log Kow < 500 Partition coefficient: n-octanol/water BCF



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#### ETHANEDIOL

Partition coefficient: n-octanol/water	-1,36
ETHANOLAMINE	
Partition coefficient: n-octanol/water	-2,3 (OECD - 107)
1,2-BENZISOTHIAZOL-3(2H)-ONE Partition coefficient: n-octanol/water BCF	0,64 3,2

REACTION MASS OF 1H-BENZOTRIAZOLE-1-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-6-METHYL- AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-5-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-4-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-4-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE Partition coefficient: n-octanol/water 7,5

#### 12.4. Mobility in soil

ETHANOLAMINE	
Partition coefficient: soil/water	1,17

#### 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** Not applicable.

**14.3. Transport hazard class(es)** Not applicable.

**14.4. Packing group** Not applicable.

**14.5. Environmental hazards** Not applicable.



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#### 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

ontained substances pur	suant to Annex XVII to EC Regulation 1907/2006
	-
3	
55	2-(2-BUTOXYETHOXY)ETHANOL Reg. no.: 01-2119475104-44
	3

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 authorisarion (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 (VwVwS 2005) WGK 2: Hazard to waters

#### 15.2. Chemical safety assessment

No chemical safety assessment for the mixture was carried out.

### **SECTION 16. Other information**

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

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
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2



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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
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
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause 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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- 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
- Regulation (EU) 2015/830 of the European Parliament 4
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- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 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: 02/03/08/09/10/11/12/15/16.