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PERFORMA 50 E/BD

Safety data sheet

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 for mechanical machining.

Uses advised against: Different uses than those intended.

1.3. Details of the supplier of the safety data sheet

Name CENTRO DISTRIBUZIONE UTENSILI SCPA

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

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
Skin irritation, category 2
H319
Causes serious eye irritation.
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.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains:

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2-METHYL-2H-ISOTHIAZOL-3-ONE, 1,2-BENZISOTHIAZOL-3(2H)-ONE May produce an allergic reaction.

Precautionary statements:

P261 Avoid breathing dust / fume / gas / mist / vapours.

P264 Wash the skin thoroughly after handling.

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: 2-METHYL-2H-ISOTHIAZOL-3-ONE

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 Conc. % Classification 1272/2008 (CLP)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

CAS 64742-53-6 6,8 ≤ x ≤ 10,8 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., ETHOXYLATED

CAS 68920-66-1 1,50 ≤ x ≤ 3,72 Skin Irrit. 2 H315, Aquatic Chronic 2 H411, Note P

EC 500-236-9

INDEX -

Reg. no. 01-2119489407-26

1,1'-IMINODIPROPAN-2-OL

CAS 110-97-4 1,0 \leq x \leq 3,5 Eye Irrit. 2 H319

EC 203-820-9

INDEX 603-083-00-7

2-(2-BUTOXYETHOXY)ETHANOL

CAS 112-34-5 1,0 \leq x \leq 2,35 Eye Irrit. 2 H319

EC 203-961-6

INDEX 603-096-00-8

Reg. no. 01-2119475104-44

ETHOXYLATED OLEOAMIDE

CAS 26027-37-2 $0,50 \le x \le 1,90$ Eye Irrit. 2 H319

EC 607-851-2

INDEX -

FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH ACRYLIC ACID

CAS - 0,50 ≤ x ≤ 1,345 Skin Corr. 1C H314

EC 939-424-4

INDEX -

Reg. no. 01-2119972299-21



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

CAS 110-25-8 $0,50 \le x \le 1,345$

Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic

Acute 1 H400 M=1

EC 203-749-3

INDEX -

Reg. no. 01-2119488991-20

ETHANOLAMINE

CAS 141-43-5 0,50 ≤ x ≤ 0,80 Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin

Corr. 1B H314, STOT SE 3 H335, Aquatic Chronic 3 H412

EC 205-483-3

INDEX 603-030-00-8

Reg. no. 01-2119486455-28

2-METHYL-2H-ISOTHIAZOL-3-ONE

CAS 2682-20-4 0,10 ≤ x ≤ 0,37 Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B

H314, STOT SE 3 H335, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1

EC 220-239-6

INDEX -

Reg. no. Excluding art. 15

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

CAS 2634-33-5 0,10 ≤ x ≤ 0,37 Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens.

1A H317, Aquatic Acute 1 H400 M=1

EC 220-120-9

INDEX 613-088-00-6

Reg. no. Excluding Art. 15

ETHANEDIOL

CAS 107-21-1 0,01 \leq x \leq 0,06 Acute Tox. 4 H302, STOT RE 2 H373

INDEX 603-027-00-1

Reg. no. 01-2119456816-28

FATTY ALCOHOL ALKOXYLATED

CAS 0,01 ≤ x ≤ 0,038 Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=10, Aquatic Chronic 2

H411

MIDEN

FC

INDEX -

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

CAS 3811-73-2 0,01 ≤ x ≤ 0,023 Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit.

2 H319, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=100

EC 223-296-5

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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 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.



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

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

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

Information not available.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

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

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

6.2. Environmental precautions

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

10

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

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany):

7.3. Specific end use(s)

Emulsifiable metalworking fluid for mechanical machining.

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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

DNK

Regulatory References:
DEU Deutschland

Deutschland MAK-und BAT-Werte-Liste 2012
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

NLDNederlandDatabank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18POLPolskaROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011rPRTPortugalMinistério 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

EU OEL EU 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 2016

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Health - Derived no-effect level - DNEL / DMEL

Effects on Effects on consumers workers

Route of exposure Acute local Acute systemic Chronic local Chronic systemic Systemic Systemic Chronic local Systemic Sys

1,1'-IMINODIPROPAN-2-OL									
Predicted no-effect concentration - PNEC									
Normal value in fresh water	Normal value in fresh water					mg/l	/I		
Normal value in marine water			0,02777 mg/l						
Normal value for fresh water s	Normal value for fresh water sediment			2,33	mg/kg				
Normal value for marine water				0,233	mg/kg				
Normal value for water, intermittent release			2,777	mg/l					
Normal value of STP microorganisms			15000	mg/l					
Health - Derived no-effect	Health - Derived no-effect level - DNEL / DMEL								
	Effects on				Effects on				
	consumers				workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral	Oral 1,3 mg/kg bw/d								

 Inhalation
 3,9 mg/m3
 16 mg/m3

 Skin
 6,3 mg/kg bw/d
 12,5 mg/kg bw/d

2-(2-BUTOXYETHOXY)ETHANOL								
country	TWA/8h		STEL/15min					
r	mg/m3	ppm	mg/m3	ppm				
EU	67	10	100,5	15				
EU	67	10	100,5	15				
NK 6	67,5	10						
SP 6	67,5	10	101,2	15				
IN	68	10						
ΓΑ 6	67,5	10	101,2	15				
ILD	50		100		SKIN			
OL	67		100					
	EU EU NK 6 SP 6 N A 6	Duntry TWA/8h mg/m3 EU 67 EU 67 NK 67,5 SP 67,5 N 68 A 67,5 LD 50	Duntry TWA/8h mg/m3 ppm EU 67 10 EU 67 10 NK 67,5 10 SP 67,5 10 N 68 10 A 67,5 10 LD 50	Duntry TWA/8h STEL/15min mg/m3 ppm mg/m3 EU 67 10 100,5 EU 67 10 100,5 NK 67,5 10 SP 67,5 10 101,2 N 68 10 A 67,5 10 101,2 LD 50 100	Duntry TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm mg/m3 ppm TUO,5 15 EU 67 10 100,5 15 NK 67,5 10 TUO,5 TUO			



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NPI

0,9 mg/kg bw/d

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VLE
OEL
TLV-ACGIH

PRT 67,5 EU 67,5 66 10 101,210 101,2

101,2

15

15

Predicted no-effect concentration - PNEC

Normal value in fresh water 1,1 0,11 mg/l Normal value in marine water ma/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 0.32 Normal value for the terrestrial compartmen

10

mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on Effects on workers Acute local consumers Route of exposure Acute systemic Chronic local Chronic Acute Chronic local Chronic Acute local systemic systemic systemic Oral VND 5 mg/kg Inhalation 60,7 mg/m3 VND 40,5 mg/m3 40,5 mg/m3 67,5 mg/m3 67,5 mg/m3 101,2 mg/m3 VND VND VND Skin 50 mg/kg 83 mg/kg

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

 Threshold Limit Value

 Type
 Country
 TWA/8h
 STEL/15min

 mg/m3
 ppm
 mg/m3
 ppm

 MAK
 DEU
 0,1
 0,2
 INHAL

FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH ACRYLIC ACID

Predicted no-effect concentration - PNEC

Skin

 Normal value in fresh water
 0,015
 mg/l

 Normal value in marine water
 0,0015
 mg/l

 Normal value for fresh water sediment
 25
 mg/kg

 Normal value for marine water sediment
 2,5
 mg/kg

 Normal value of STP microorganisms
 9800
 mg/l

Normal value for fresh water sediment 2,5 mg/kg
Normal value for marine water sediment 2,5 mg/kg
Normal value of STP microorganisms 9800 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 Systemic Systemic Chronic local Acute systemic System

ETHANOLAMINE Threshold Limit Value Country TWA/8h STEL/15min Type mg/m3 mg/m3 ppm ppm AGW DEU 2 10.2 5.1 4 SKIN MAK DEU 2 5.1 10.2 4 TLV DNK 2,5 1 SKIN VLA ESP 2,5 7,5 3 SKIN HTP 3 SKIN FIN 2,5 7,6 VLEP 3 SKIN FRA 2,5 7,6 WEL **GBR** 2,5 7,6 3 SKIN VLEP ITA 2,5 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



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mg/l

mg/l

mg/kg

OEL	EU	2,5	1	7,6	3	SKIN			
TLV-ACGIH		7,5	3	15	6				
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				0,425	mg/kg				
Normal value for marine water sediment				0,0425	mg/kg				

Normal value for the terrestrial compartment Health - Derived no-effect level - DNEL / DMEL

Normal value for water, intermittent release

Normal value of STP microorganisms

Effects on Effects on consumers workers Route of exposure Acute systemic Chronic Acute local Chronic local Acute local Acute Chronic local Chronic systemic systemic systemic Oral VND 3,75 mg/kg/d Inhalation 2 mg/kg 3,3 mg/kg 2 mg/kg 3,3 mg/kg Skin VND 0,24 mg/kg/d VND 1 mg/kg/d

0,025

100

0,035

ETHANEDIOL								
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	26	10	52	20	SKIN		
MAK	DEU	26	10	52	20	SKIN		
TLV	DNK	26	10			SKIN		
VLA	ESP	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			
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 Normal value in marine water Normal value for fresh water sediment Normal value for marine water sediment Normal value for water, intermittent release Normal value of STP microorganisms Normal value for the terrestrial compartment				10 1 37 3,7 10 199,5 1,53		mg/l mg/lkg mg/kg mg/kg mg/l mg/kg	1	
Health - Derived no-effect	t level - DNEL / I 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	VND	7 mg/m3					35 mg/m3	VND
Skin			VND	53 mg/kg			VND	106 mg/kg

Legend:

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

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2. Exposure controls

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



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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 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 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

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

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance clear liquid Colour amber typical Odour Not available Odour threshold 10,20 Sol. 5% Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available Flash point > 100 °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 Not available Vapour density Relative density 0.99 - 1.01 Kg/ISolubility emulsifiable in water 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): 5.26 % - 52.40 a/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

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

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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.

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

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

Avoid exposure to: air, sources of heat.

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.

2-(2-BUTOXYETHOXY)ETHANOL

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

ETHANOLAMINE

Incompatible with: iron, strong acids, strong oxidants.

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.

2-(2-BUTOXYETHOXY)ETHANOL

May develop: hydrogen.

ETHANOLAMINE

May develop: nitric oxide, carbon oxides.



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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

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.

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.

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 - vapours) of the mixture: > 20 mg/l
LC50 (Inhalation - mists / powders) of the mixture: > 5 mg/l
LD50 (Oral) of the mixture: >2000 mg/kg
LD50 (Dermal) of the mixture: >2000 mg/kg

2-METHYL-2H-ISOTHIAZOL-3-ONE

 LD50 (Oral)
 391 mg/kg Rat

 LD50 (Dermal)
 326 mg/kg Rabbit

 LC50 (Inhalation)
 0,11 mg/l/4h Rat

1,1'-IMINODIPROPAN-2-OL

 LD50 (Oral)
 2000 mg/kg Rat

 LD50 (Dermal)
 8000 mg/kg Rabbit

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

LD50 (Oral) > 5000 mg/kg Rat LC50 (Inhalation) 1,8 mg/l/4h Rat

ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED

LD50 (Oral) > 2000 mg/kg Rat

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

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

 LD50 (Dermal)
 > 5000 mg/kg Rabbit - API 1982

 LC50 (Inhalation)
 > 5,53 mg/l/4h Rat - EMBSI 1988a



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2-(2-BUTOXYETHOXY)ETHANOL

LD50 (Oral) 2410 mg/kg Mouse (OECD - guidelines 401) 2764 mg/kg Rabbit (OECD - guidelines 402) LD50 (Dermal) LC50 (Inhalation)

> 29 ppm/2h Rat (IRT)

ETHANEDIOL

> 1600 mg/kg Human being: European Union has classified the substance as "harmful". LD50 (Oral)

LD50 (Dermal) > 3500 mg/kg Rat LC50 (Inhalation) > 2,5 mg/l Rat

ETHANOLAMINE

LD50 (Oral) 1515 mg/kg Rat LD50 (Dermal) 2504 mg/kg Rabbit LC50 (Inhalation) 1,48 mg/l Rat

FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH ACRYLIC ACID LD50 (Oral) 6176 mg/kg Rat

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

LD50 (Oral) > 670 mg/kg Rat LD50 (Dermal) > 2000 mg/kg Rat

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

LD50 (Oral) 1500 mg/kg bw Rat LD50 (Dermal) 1800 mg/kg bw Rabbit LC50 (Inhalation) 1,08 mg/l Rat

SKIN CORROSION / IRRITATION

Causes skin irritation.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin. May produce an allergic reaction. Contains:

2-METHYL-2H-ISOTHIAZOL-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).



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SECTION 12. Ecological information

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

12.1. Toxicity

2-METHYL-2H-ISOTHIAZOL-3-ONE

LC50 - for Fish 4,77 mg/l/96h Fish
EC50 - for Algae / Aquatic Plants 0,158 mg/l/72h Algae

1,1'-IMINODIPROPAN-2-OL

 LC50 - for Fish
 1466 mg/l/96h Fish

 EC50 - for Crustacea
 277,7 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 339 mg/l/72h

(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., ETHOXYLATED

LC50 - for Fish > 1 mg/l/96h Carassius Auratus

EC50 - for Crustacea > 1 mg/l/48h Daphnia

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC LC50 - for Fish > 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

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Scenedesmus subspicatus

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 65 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 2,5 mg/l/72h Selenastrum capricornutum

FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH ACRYLIC ACID

LC50 - for Fish 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

LC50 - for Fish 1,9 mg/l/96h Fish
EC50 - for Crustacea 3,7 mg/l/48h Daphnia



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PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

LC50 - for Fish 0,007 mg/l/96h

EC50 - for Algae / Aquatic Plants 0,009 mg/l/72h Selenastrum capricornutum

FATTY ALCOHOL ALKOXYLATED

LC50 - for Fish 1 mg/l/96h Orfe
EC50 - for Crustacea 1 mg/l/48h
EC50 - for Algae / Aquatic Plants 0,1 mg/l/72h
Chronic NOEC for Crustacea 0,25 mg/l

12.2. Persistence and degradability

2-METHYL-2H-ISOTHIAZOL-3-ONE NOT rapidly biodegradable.

1,1'-IMINODIPROPAN-2-OL

Solubility in water Soluble

Rapidly biodegradable.

(Z)-N-METHYL-N-(1-OXO-9-OCTADECENYL)GLYCINE Rapidly biodegradable.

ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED Solubility in water Insoluble

Rapidly biodegradable.

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Solubility in water Insoluble

Entirely biodegradable.

2-(2-BUTOXYETHOXY)ETHANOL

Solubility in water Miscible

Rapidly biodegradable.

ETHANEDIOL

Solubility in water 1000 - 10000 mg/l

Rapidly biodegradable.

ETHANOLAMINE

Solubility in water Miscible

Rapidly biodegradable.

1,2-BENZISOTHIAZOL-3(2H)-ONE Not persistent and biodegradable.

12.3. Bioaccumulative potential

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Partition coefficient: n-octanol/water > 3 Log Kow BCF < 500

2-(2-BUTOXYETHOXY)ETHANOL

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



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ETHANEDIOL

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

ETHANOLAMINE

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

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

Partition coefficient: n-octanol/water 0,64 BCF 3,2

12.4. Mobility in soil

2-(2-BUTOXYETHOXY)ETHANOL
Partition coefficient: soil/water 1

ETHANOLAMINE

Partition coefficient: soil/water -0,5646

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.

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.



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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 3

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 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. 2 Acute toxicity, category 2

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 Eve irritation, category 2

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

Xforma

CENTRO DISTRIBUZIONE UTENSILI SCPA

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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

H330Fatal if inhaled.H301Toxic if swallowed.H311Toxic in contact with skin.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

Harmful if swallowed

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:

H302

- 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).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament



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- 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 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 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 / 02 / 03 / 04 / 07 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.