

## PERFORMA 40 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 40 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 (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:

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

### 2.2. Label elements

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

#### Hazard pictograms:



Signal words: WARNING

#### Hazard statements:

H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.  
EUH208 Contains:  
2-METHYL-4-ISOTHIAZOLIN-3-ONE;



## PERFORMA 40 E/BD

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

## Precautionary statements:

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

**Contains:** 2-METHYL-4-ISOTHIAZOLIN-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	x = Conc. %	Classification 1272/2008 (CLP)
<b>DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC</b>		
CAS 64742-53-6	8,0 ≤ x ≤ 14,0	Asp. Tox. 1 H304, Classification note according to Annex VI to the CLP Regulation: L
EC 265-156-6		
INDEX 649-466-00-2		
Reg. no. 01-2119480375-34		
<b>2-(2-BUTOXYETHOXY)ETHANOL</b>		
CAS 112-34-5	2,0 ≤ x ≤ 5,72	Eye Irrit. 2 H319
EC 203-961-6		
INDEX 603-096-00-8		
Reg. no. 01-2119475104-44		
<b>ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED</b>		
CAS 68920-66-1	1,0 ≤ x ≤ 3,94	Skin Irrit. 2 H315, Aquatic Chronic 2 H411, Classification note according to Annex VI to the CLP Regulation: P
EC 500-236-9		
INDEX -		
Reg. no. 01-2119489407-26		
<b>1,1'-IMINODIPROPAN-2-OL</b>		
CAS 110-97-4	0,5 ≤ x ≤ 2,55	Eye Irrit. 2 H319
EC 203-820-9		
INDEX 603-083-00-7		
<b>ETHOXYLATED OLEOAMIDE</b>		
CAS 26027-37-2	0,5 ≤ x ≤ 2,42	Eye Irrit. 2 H319
EC 607-851-2		
INDEX -		
<b>FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH ACRYLIC ACID</b>		
CAS -	0,5 ≤ x ≤ 1,05	Skin Corr. 1C H314



EC 939-424-4

INDEX -

Reg. no. 01-2119972299-21

#### ETHANOLAMINE

CAS 141-43-5                       $0,5 \leq x \leq 1,014$                       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

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

CAS 110-25-8                       $0,4 \leq x \leq 0,9$                       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

#### 2-METHYL-4-ISOTHIAZOLIN-3-ONE

CAS 2682-20-4                       $0,1 \leq x \leq 0,36$                       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. Escluso art. 15

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

CAS 2634-33-5                       $0,1 \leq x \leq 0,36$                       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. Escluso Art. 15

#### FATTY ALCOHOL ALKOXYLATED

CAS -                                       $0,01 \leq x \leq 0,075$                       Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=10, Aquatic Chronic 2 H411

EC -

INDEX -

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

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

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

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

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

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

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

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

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

Information 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.

**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**

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): 10

**7.3. Specific end use(s)**

Emulsifiable metalworking fluid for mechanical machining.

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters**

Regulatory References:

DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015



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FIN	Suomi	HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveysministeriön julkaisu 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 Council of Netherlands (SER) Values, AF 2011:18
POL	Polska	ROZPORZĄDZENIE 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 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) 2017/2398; 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								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation							5,4 mg/m3	VND

## 2-(2-BUTOXYETHOXY)ETHANOL

Threshold Limit Value					
Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	67	10	100,5	15
MAK	DEU	67	10	100,5	15
TLV	DNK	67,5	10		
VLA	ESP	67,5	10	101,2	15
HTP	FIN	68	10		
VLEP	ITA	67,5	10	101,2	15
OEL	NLD	50		100	SKIN
NDS	POL	67		100	
VLE	PRT	67,5	10	101,2	15
OEL	EU	67,5	10	101,2	15
TLV-ACGIH		66	10		

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

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



## PERFORMA 40 E/BD

Skin VND 50 mg/kg VND 83 mg/kg

## 1,1'-IMINODIPROPAN-2-OL

## Predicted no-effect concentration - PNEC

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

## Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
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

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

## Predicted no-effect concentration - PNEC

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

## 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							NPI	3,19 mg/m3
Skin							NPI	0,9 mg/kg bw/d

## ETHANOLAMINE

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
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



## PERFORMA 40 E/BD

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 water, intermittent release	0,025	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,035	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	3,75 mg/kg/d				
Inhalation			2 mg/kg	2 mg/kg			3,3 mg/kg	3,3 mg/kg
Skin			VND	0,24 mg/kg/d			VND	1 mg/kg/d

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

## Threshold Limit Value

Type	Country	TWA/8h	ppm	STEL/15min	ppm	
MAK	DEU	0,1		0,2		INHAL

## 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.

TLV of solvent mixture: 7,5 mg/m3

## 8.2. Exposure controls

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

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

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

Provide an emergency shower with face and eye wash station.

## HAND PROTECTION

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

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

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

## SKIN PROTECTION

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

## EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

## RESPIRATORY PROTECTION

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

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

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

**ENVIRONMENTAL EXPOSURE CONTROLS**

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

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

**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Appearance	clear liquid
Colour	amber
Odour	typical
Odour threshold	Not available
pH	10,07 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
Vapour density	Not available
Relative density	0,980 - 1,050 Kg/l
Solubility	emulsifiable in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	>20,5 mm <sup>2</sup> /sec (40°C)
Explosive properties	not applicable
Oxidising properties	Not available

**9.2. Other information**

VOC (Directive 2010/75/EC) : 4,46 %

**SECTION 10. Stability and reactivity****10.1. Reactivity**

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

**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.

#### 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.

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.

2-(2-BUTOXYETHOXY)ETHANOL

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

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

Avoid contact with: strong oxidising agents.

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.

## 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.

##### Delayed and immediate effects as well as chronic effects from short and long-term exposure

2-(2-BUTOXYETHOXY)ETHANOL

May be absorbed by inhalation, ingestion and skin contact; is irritating for the skin and especially for the eyes. May cause damage to the spleen. At room temperature the danger of inhalation is unlikely, due to the low vapour pressure of the substance.

##### Interactive effects

Information not available.

##### ACUTE TOXICITY

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-4-ISOTHIAZOLIN-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

**2-(2-BUTOXYETHOXY)ETHANOL**

LD50 (Oral) 2410 mg/kg Mouse (OECD 401)  
LD50 (Dermal) 2764 mg/kg Rabbit (OECD 402)  
LC50 (Inhalation) > 29 ppm/2h Rat (IRT)

**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

**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-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.

**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 mm<sup>2</sup>/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.

### 12.1. Toxicity

#### 2-METHYL-4-ISOTHIAZOLIN-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 Fish
EC50 - for Crustacea	> 1 mg/l/48h Daphnia

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

LC50 - for Fish	> 100 mg/l/96h Fish
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#### 2-(2-BUTOXYETHOXY)ETHANOL

LC50 - for Fish	1300 mg/l/96h <i>Lepomis macrochirus</i> - OECD 203
EC50 - for Crustacea	> 100 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h <i>Scenedesmus subspicatus</i> - OECD 201

#### ETHANOLAMINE

LC50 - for Fish	349 mg/l/96h <i>Cyprinus carpio</i>
EC50 - for Crustacea	65 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	2,5 mg/l/72h <i>Selenastrum capricornutum</i>

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

LC50 - for Fish	15 mg/l/96h
EC50 - for Crustacea	22,5 mg/l/48h <i>Daphnia</i>
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 Dafnie

## FATTY ALCOHOL ALKOXYLATED

LC50 - for Fish	1 mg/l/96h
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-4-ISOTHIAZOLIN-3-ONE

NOT rapidly degradable

## 1,1'-IMINODIPROPAN-2-OL

Solubility in water	Soluble
Rapidly degradable	

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

Rapidly degradable

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

Solubility in water	Insoluble
NOT rapidly degradable	

## DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Solubility in water	Insoluble
Entirely degradable	

## 2-(2-BUTOXYETHOXY)ETHANOL

Solubility in water	Miscible
Rapidly degradable	

## ETHANOLAMINE

Solubility in water	Miscible
Rapidly degradable	

**12.3. Bioaccumulative potential**

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

Partition coefficient: n-octanol/water	> 3,8 Log Kow
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## 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

#### 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.

**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 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 2: Hazard to waters.

**15.2. Chemical safety assessment**

No 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:

<b>Acute Tox. 2</b>	Acute toxicity, category 2
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>Skin Corr. 1C</b>	Skin corrosion, category 1C
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2



<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Skin Sens. 1A</b>	Skin sensitization, category 1A
<b>Skin Sens. 1B</b>	Skin sensitization, category 1B
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H330</b>	Fatal if inhaled.
<b>H301</b>	Toxic if swallowed.
<b>H311</b>	Toxic in contact with skin.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H332</b>	Harmful if inhaled.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H400</b>	Very toxic to aquatic life.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	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).

## GENERAL BIBLIOGRAPHY



1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 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
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/1480 (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.