



Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: **U01215**
Product name: **PERFORMA 30 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 95745182e-mail address of the competent person
responsible for the Safety Data Sheet
Product distribution by:**info@cdu.net**
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.



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Precautionary statements:

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

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

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC		
CAS 64742-53-6	29,50 ≤ x < 34,50	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		
ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED		
CAS 68920-66-1	5,31 ≤ x ≤ 7,31	Skin Irrit. 2 H315, Aquatic Chronic 2 H411
EC 500-236-9		
INDEX -		
Reg. no. 01-2119489407-26		
(9Z)-N-[2-(2-HYDROXYETHOXY)ETHYL]OCTADEC-9-ENAMIDE		
CAS 26027-37-2	2,16 ≤ x ≤ 4,16	Eye Irrit. 2 H319
EC 607-851-2		
INDEX -		
2-(2-BUTOXYETHOXY)ETHANOL		
CAS 112-34-5	1,40 ≤ x ≤ 3,40	Eye Irrit. 2 H319
EC 203-961-6		
INDEX 603-096-00-8		
Reg. no. 01-2119475104-44		
2-AMINOETHANOL		
CAS 141-43-5	0,99 ≤ x ≤ 1,99	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Chronic 3 H412
EC 205-483-3		
INDEX 603-030-00-8		
Reg. no. 01-2119486455-28		
1-AMINOPROPAN-2-OL		
CAS 78-96-6	0,5 ≤ x ≤ 1	Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318
EC 201-162-7		



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INDEX 603-082-00-1

Reg. no. 01-2119475331-43

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

CAS 110-25-8 0,49 ≤ x ≤ 0,99 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

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

CAS 3811-73-2 0,1 ≤ x ≤ 0,234 Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=100, Aquatic Chronic 2 H411

EC 223-296-5

INDEX -

Reg. no. 01-2119493385-28

2-METHYL-4-ISOTHIAZOLIN-3-ONE

CAS 2682-20-4 0,1 ≤ x ≤ 0,21 Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

EC 220-239-6

INDEX -

Reg. no. 01-2120764690-50

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

CAS 2634-33-5 0,1 ≤ x ≤ 0,21 Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

EC 220-120-9

INDEX 613-088-00-6

Reg. no. 01-2120761540-60

ALCOHOLS, C12-15-BRANCH./LINEAR, EO/PO~

CAS 120313-48-6 0,1 ≤ x ≤ 0,113 Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

EC 639-733-1

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

SECTION 4. First aid measures**4.1. Description of first aid measures**

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

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

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

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

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

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

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

Information for the doctor: symptomatically treatment.

SECTION 5. Firefighting measures

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5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

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

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 10

7.3. Specific end use(s)

Emulsifiable metalworking fluid for mechanical machining.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

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DEU	Deutschland	TRGS 900 (Fassung 07.06.2018) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
DNK	Danmark	Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for stoffer og materialer1- BEK nr 655 af 31/05/2018
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2008 NIPO: 211-08-011-5
FIN	Suomi	HTP-VÄRDEN 2018. Koncentrationer som befunnsit skadliga. SOCIAL- OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 10/2018
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition,published 2018)
ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018, 2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtlijn 2017/164 in Bijlage XIII
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici
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	
MAK	DEU	67	10	100,5	15	Hinweis
TLV	DNK	68	10			E
VLA	ESP	67,5	10	101,2	15	
HTP	FIN	68	10			
WEL	GBR	67,5	10	101,2	15	
VLEP	ITA	67,5	10	101,2	15	
TGG	NLD	50		100		SKIN
NDS/NDSch	POL	67		100		
VLE	PRT	67,5	10	101,2	15	
TLV	ROU	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



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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								5 mg/kg
Inhalation	60,7 mg/m3		40,5 mg/m3	40,5 mg/m3	101,2 mg/m3		67,5 mg/m3	67,5 mg/m3
Skin				50 mg/kg				83 mg/kg

2-AMINOETHANOL

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
MAK	DEU	0,51	0,2	0,51	0,2	
TLV	DNK	2,5	1			SKIN E
VLA	ESP	2,5	1	7,5	3	SKIN
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
TGG	NLD	2,5		7,6		SKIN
NDS/NDSCh	POL	2,5		7,5		SKIN
VLE	PRT	2,5	1	7,6	3	SKIN
TLV	ROU	2,5	1	7,6	3	SKIN
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	0,434	mg/kg
Normal value for marine water sediment	0,0434	mg/kg
Normal value for water, intermittent release	0,028	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	1,29	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				3,75 mg/kg				
Inhalation			2 mg/m3	2 mg/m3			3,3 mg/m3	VND



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Skin 0,24 mg/kg 1 mg/kg

1-AMINOPROPAN-2-OL

Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
MAK	DEU	5,8	2	11,6	4	INHAL	Aerosol	
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,0327	mg/l			
Normal value in marine water				0,00327	mg/l			
Normal value for fresh water sediment				0,177	mg/kg			
Normal value for marine water sediment				0,0177	mg/kg			
Normal value for water, intermittent release				0,327	mg/l			
Normal value of STP microorganisms				3,3	mg/l			
Normal value for the terrestrial compartment				0,0161	mg/kg			
Health - Derived no-effect level - DNEL / DMEL								
Effects on consumers					Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,67 mg/kg bw/d				
Inhalation				2,1 mg/m3				8,5 mg/m3

(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	0,05		0,1		INHAL		

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	1		2		INHAL	aerosol	
MAK	DEU	1		2		INHAL	aerosol	
TLV	DNK	1		2				
TLV-ACGIH		0,35						

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

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.

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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	characteristic
Odour threshold	Not available
pH	9,80 – 10,70 (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	0,96 - 0,98 Kg/l (20°C)
Solubility	emulsifiable in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	>20,5 mm ² /sec (40°C)
Explosive properties	Not applicable



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Oxidising properties Not available

9.2. Other information

VOC (Directive 2010/75/EC) : 2,99 %

VOC (volatile carbon) : 1,26 %

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

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

2-AMINOETHANOL

Corrodes: copper, copper alloys.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

2-AMINOETHANOL

Reacts with: oxidising agents, acids, halogenated compounds, acid chlorides, acid anhydrides.

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.

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

Avoid contact with: strong acids, oxidising agents.

2-(2-BUTOXYETHOXY)ETHANOL

Avoid exposure to: heat, flames, ignition sources.

2-AMINOETHANOL

Avoid exposure to: high temperatures.

1-AMINOPROPAN-2-OL

Avoid exposure to: high temperatures, moisture.

ALCOHOLS, C12-15-BRANCH./LINEAR, EO/PO-

Avoid exposure to: heat, flames, sparks, moisture.

10.5. Incompatible materials

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Incompatible with: oxidising agents.

(9Z)-N-[2-(2-HYDROXYETHOXY)ETHYL]OCTADEC-9-ENAMIDE

Incompatible with: strong oxidising agents.

2-(2-BUTOXYETHOXY)ETHANOL

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

2-AMINOETHANOL

Incompatible with: oxidising agents, isocyanates, acid anhydrides, acid chlorides, acids. Incompatible materials: copper alloys, mild steel.

1-AMINOPROPAN-2-OL

Incompatible with: strong acids, strong oxidising agents, halogenated organic substances. Avoid contact with: halogenated hydrocarbons.

May corrode: metals, aluminium.

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

Incompatible with: acids, oxidising agents.

ALCOHOLS, C12-15-BRANCH./LINEAR, EO/PO-

Incompatible with: strong oxidising agents.

10.6. Hazardous decomposition products

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

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

(9Z)-N-[2-(2-HYDROXYETHOXY)ETHYL]OCTADEC-9-ENAMIDE



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When heated to decomposition releases: irritating vapours.

2-(2-BUTOXYETHOXY)ETHANOL

When heated to decomposition releases: carbon.

2-AMINOETHANOL

In decomposition develops: carbon oxides, nitric oxide, nitrous gases.

1-AMINOPROPAN-2-OL

May develop: nitric oxide, carbon oxides, nitrous gases.

ALCOHOLS, C12-15-BRANCH./LINEAR, EO/PO~

When heated to decomposition releases: toxic and irritating gases and vapors. May develop: silicon dioxide. Develops hydrogen on contact with: metals, metallic compounds.

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) of the mixture:	> 20 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

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

LD50 (Oral)	> 5000 mg/kg Rat
LC50 (Inhalation)	1,8 mg/l/4h 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)	6600 mg/kg Rat
LD50 (Dermal)	2764 mg/kg Rabbit
LC50 (Inhalation)	> 29 ppm/2h Rat

**Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

2-AMINOETHANOL

LD50 (Oral) 1515 mg/kg Rat (OECD - 401)
LD50 (Dermal) 2504 mg/kg Rabbit (OECD - 402)
LC50 (Inhalation) > 1,3 mg/l/6h Rat (IRT)

1-AMINOPROPAN-2-OL

LD50 (Oral) 2813 mg/kg Rat
LD50 (Dermal) 1851 mg/kg Rabbit

(9Z)-N-[2-(2-HYDROXYETHOXY)ETHYL]OCTADEC-9-ENAMIDE

LD50 (Oral) > 2000 mg/kg Rat

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

LD50 (Oral) 1020 mg/kg bw Rat

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

LD50 (Oral) 1250 mg/kg (calculated)
LD50 (Dermal) > 2000 mg/kg (calculated)
LC50 (Inhalation) 1,25 mg/l/4h (calculated)

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

LD50 (Oral) > 2000 mg/kg Rat (OECD 401)

SKIN CORROSION / IRRITATION

Causes skin irritation.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class.

ASPIRATION HAZARD

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

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



Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

2-METHYL-4-ISOTHIAZOLIN-3-ONE

LC50 - for Fish 10 mg/l/96h *Leopomis macrochirus*EC50 - for Crustacea 0,85 mg/l/48h *Daphnia magna*

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

LC50 - for Fish > 1 mg/l Fish

EC50 - for Crustacea 0,43 mg/l/48h *Daphnia*

EC50 - for Algae / Aquatic Plants 6,3 mg/l/72h Algae

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Chronic NOEC for Crustacea 10 mg/l 21d

2-(2-BUTOXYETHOXY)ETHANOL

LC50 - for Fish 1300 mg/l/96h *Lepomis macrochirus* (OECD 201)EC50 - for Crustacea > 100 mg/l/48h *Daphnia magna* (OECD 203)

2-AMINOETHANOL

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 *Selenastrum capricornutum* (OECD - 201)Chronic NOEC for Crustacea 0,85 mg/l/21d *Daphnia magna* (OECD- 211)

1-AMINOPROPAN-2-OL

LC50 - for Fish > 215 mg/l/96h *Leuciscus idus* (DIN 38412)EC50 - for Crustacea 109 mg/l/48h *Daphnia magna* (OECD 202)EC50 - for Algae / Aquatic Plants 32,7 mg/l/72h *Scenedesmus subspicatus* (OECD 201)

(9Z)-N-[2-(2-HYDROXYETHOXY)ETHYL]OCTADEC-9-ENAMIDE

LC50 - for Fish > 10 mg/l/96h *Carassius auratus*EC50 - for Crustacea > 10 mg/l/48h *Daphnia*

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

LC50 - for Fish 10 mg/l/96h

EC50 - for Crustacea 4,4 mg/l/48h

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

LC50 - for Fish 0,00767 mg/l/96h *Brachydanio rerio* (OECD 203)EC50 - for Crustacea 0,022 mg/l/48h *Daphnia MAGNA* (OECD 202)EC50 - for Algae / Aquatic Plants 0,46 mg/l/72h *Selenastrum capricornutum* (OECD 201)

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

LC50 - for Fish > 1000 mg/l/96h *Danio rerio* (OECD 203)

ALCOHOLS, C12-15-BRANCH./LINEAR, EO/PO~



Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

LC50 - for Fish	> 1 mg/l/96h <i>Leuciscus idus</i>
EC50 - for Crustacea	1 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 0,1 mg/l/72h <i>Scenedesmus subspicatus</i>
Chronic NOEC for Crustacea	> 0,1 mg/l (21d)

12.2. Persistence and degradability

2-METHYL-4-ISOTHIAZOLIN-3-ONE

Degradability: information not available

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

Rapidly degradable 85% - 28d (OECD 301/B)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Solubility in water Insoluble

Entirely degradable

2-(2-BUTOXYETHOXY)ETHANOL

Rapidly degradable 80/90% - 28d (OECD 301C)

2-AMINOETHANOL

Solubility in water Miscible

Rapidly degradable 90% - 21d (OECD 301/A)

1-AMINOPROPAN-2-OL

Solubility in water Miscible

Rapidly degradable 78 % - 28 d (OECD 301F)

(9Z)-N-[2-(2-HYDROXYETHOXY)ETHYL]OCTADEC-9-ENAMIDE

Rapidly degradable

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

NOT rapidly degradable 17 % - 28d (OECD 302/B)

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

Rapidly degradable > 70% (OECD 301 B - CO2 Evolution)

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

Solubility in water Insoluble

Rapidly degradable > 70% - 28d (OECD TG 301 B)

12.3. Bioaccumulative potential

2-METHYL-4-ISOTHIAZOLIN-3-ONE

BCF 3,16

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Partition coefficient: n-octanol/water > 2 Log Kow



Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

BCF	< 500
2-(2-BUTOXYETHOXY)ETHANOL Partition coefficient: n-octanol/water	1 Log Kow (20°C pH 7 - OCSE 117)
2-AMINOETHANOL Partition coefficient: n-octanol/water	-2,3 (OECD - 107)
1-AMINOPROPAN-2-OL Partition coefficient: n-octanol/water	-0,93 Log Kow (OECD - 107)
BCF	0,11
1,2-BENZISOTHIAZOL-3(2H)-ONE Partition coefficient: n-octanol/water	0,7 Log Kow (OECD 117 - HPLC Method)
BCF	6,95 Fish (OECD 305)
PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT Partition coefficient: n-octanol/water	< -1,09 (OECD 107 - Sheke Flask Method)
ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED Partition coefficient: n-octanol/water	> 3,8 Log Kow

12.4. Mobility in soil

2-(2-BUTOXYETHOXY)ETHANOL Partition coefficient: soil/water	1
2-AMINOETHANOL Partition coefficient: soil/water	1,16
1-AMINOPROPAN-2-OL Partition coefficient: soil/water	1,78

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

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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 - 40

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.

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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 a chemical safety assessment has been performed for the mixture.

SECTION 16. Other information

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

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
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1°
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
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
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

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- 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

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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
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- 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 / 09 / 12 / 13 / 14 / 15.