Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code:	**U01010**
Product name	**PERFORMA DUE**
UFI:	**U970-Y0HN-S00D-VS89**

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

Intended use	**Emulsifiable lubricant-coolant fluid for mechanical machining.**
Uses advised against:	Different uses than those intented.

1.3. Details of the supplier of the safety data sheet

Name	**CENTRO DISTRIBUZIONE UTENSILI S.p.a.**
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**
Supplier:	**CENTRO DISTRIBUZIONE UTENSILI S.p.a.**

1.4. Emergency telephone number

For urgent inquiries refer to	**CENTRO DISTRIBUZIONE UTENSILI S.p.a. +39 02 95746081** **(Technical support - Office hour 8.30-13.00 - 14.00-17.30)**

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 2020/878.
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:

Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
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: DANGER

Hazard statements:

H318 Causes serious eye damage.
H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280 Wear protective gloves / eye protection / face protection.
P310 Immediately call a POISON CENTER / doctor if you feel unwell.
P264 Wash the skin thoroughly after handling.
P273 Avoid release to the environment.
P332+P313 If skin irritation occurs: get medical advice / attention.

Contains: 2-PHENOXYETHANOL.

2.3. Other hazards
On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.
The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures
Contains:

Identification	X = Conc. %	Classification (EC) 1272/2008 (CLP)
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC		
INDEX 649-466-00-2 *EC 265-156-6* *CAS 64742-53-6* *REACH Reg. 01-2119480375-34*	50 ≤ x < 75	Asp. Tox. 1 H304, Classification note according to Annex VI to the CLP Regulation: L. Substance with extract content in DMSO of less than 3% by weight, determined using the IP 346 method.
2-PHENOXYETHANOL		
INDEX 603-098-00-9 *EC 204-589-7* *CAS 122-99-6* *REACH Reg. 01-2119488943-21*	5 ≤ x < 10	Acute Tox. 4 H302, Eye Dam. 1 H318, STOT SE 3 H335 LD50 Oral: 1394 mg/kg
SULFONIC ACIDS, PETROLEUM, SODIUM SALTS		
INDEX - *EC 271-781-5* *CAS 68608-26-4* *REACH Reg. 01-2119527859-22*	5 ≤ x < 10	Eye Irrit. 2 H319
BIPHENYL-2-OL		
INDEX 604-020-00-6 *EC 201-993-5* *CAS 90-43-7* *REACH Reg. 01-2119511183-53*	1 ≤ x < 5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Acute 1 H400 M=1
ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED		
INDEX - *EC 500-236-9* *CAS 68920-66-1* *REACH Reg. 01-2119489407-26*	1 ≤ x < 5	Skin Irrit. 2 H315, Aquatic Chronic 2 H411
POLYOXYETHYLENE OLEIL ETHER NEUTRALIZED CARBOXYLIC ACID		
INDEX -	1 ≤ x < 5	Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC -

CAS *57635-48-0*

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-(CARBOXYMETHYL)-.OMEGA.-((2-ETHYLHEXYL)OXY)- (4 - 11 EO) NEUTRALIZED

INDEX - 1 ≤ x < 5 Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC *600-837-7*

CAS *107600-33-9*

FATTY ACIDS, TALL-OIL, POTASSIUM SALTS

INDEX - 1 ≤ x < 5 Eye Irrit. 2 H319

EC *263-136-1*

CAS *61790-44-1*

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

INDEX - 0,05 ≤ X < 0,1 Acute Tox. 3 H311, Acute Tox. 3 H331, Acute Tox. 4 H302, STOT RE 1 H372, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 2 H411, EUH070
LD50 Oral: 1208 mg/kg bw, STA Dermal: 300 mg/kg, STA Inhalation mists/powders: 0,501 mg/l, STA Inhalation mists/powders: 1,5 mg/l

EC *223-296-5*

CAS *3811-73-2*

REACH Reg. *biocide*

Note L: the classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346.
The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures
EYES: remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.
SKIN: remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.
INHALATION: remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.
INGESTION: get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed
Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed
Information for the doctor: symptomatically treatment.

SECTION 5. Firefighting measures

5.1. Extinguishing media
SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture
HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters
GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained 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 lubricant-coolant fluid for mechanical machining.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters
Regulatory references:

AUS	Österreich	Gesamte Rechtsvorschrift für Grenzwerteverordnung 2021 , Fassung vom 14.05.2023
CHE	Suisse / Schweiz	Valeurs limites d`exposition aux postes de travail: VME/VLE (SUVA). Grenzwerte am Arbeitsplatz: MAK (SUVA)
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
	TLV-ACGIH	ACGIH 2023

SULFONIC ACIDS, PETROLEUM, SODIUM SALTS

Predicted no-effect concentration - PNEC		
Normal value in fresh water	1	mg/l
Normal value in marine water	1	mg/l
Normal value for fresh water sediment	723500000	mg/kg/d
Normal value for marine water sediment	723500000	mg/kg/d
Normal value of STP microorganisms	100	mg/l

Normal value for the terrestrial compartment	868700000	mg/kg/d

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				0,833 mg/kg bw/d				
Inhalation				0,33 mg/m3				0,66 mg/m3
Skin				1,667 mg/kg bw/d				3,33 mg/kg bw/d

BIPHENYL-2-OL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	5		5		INHAL
MAK	DEU	5		5		INHAL

Predicted no-effect concentration - PNEC

Normal value in marine water	0,00009	mg/l
Normal value for marine water sediment	0,01284	mg/kg dwt
Normal value for water, intermittent release	0,027	mg/l
Normal value of STP microorganisms	0,56	mg/l
Normal value for the terrestrial compartment	2,5	mg/kg dwt

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				0,4 mg/kg bw/d				
Inhalation				1,2 mg/m3				19,25 mg/m3
Skin				0,4 mg/kg bw/d				21,84 mg/kg bw/d

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation							5,4 mg/m3	

2-PHENOXYETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	110	20	110 (C)	20 (C)	
MAK	CHE	110	20	110	20	
VME/VLE	CHE	110	20	110	20	
AGW	DEU	5,7	1	5,7	1	11
MAK	DEU	5,7	1	5,7	1	
HTP	FIN	110	20	290	50	SKIN
NDS/NDSCh	POL	230				

MV	SVN	110	20	110	20	SKIN

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,943	mg/l
Normal value in marine water	0,0943	mg/l
Normal value for fresh water sediment	7,237	mg/kg
Normal value for marine water sediment	0,7237	mg/kg
Normal value for water, intermittent release	3,44	mg/l
Normal value of STP microorganisms	36	mg/l
Normal value for the terrestrial compartment	1,31	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		9,43 mg/kg bw/d		9,43 mg/kg bw/d				
Inhalation			2,41 mg/m3	2,41 mg/m3			5,7 mg/m3	5,7 mg/m3
Skin				10,42 mg/kg bw/d				20,83 mg/kg bw/d

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	1		4		
MAK	CHE	0,2		0,4		INHAL
AGW	DEU	0,2		0,4		INHAL
MAK	DEU	0,2		0,4		INHAL
TLV	DNK	1		2		SKIN
TLV-ACGIH		0,35				

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

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,002	mg/l
Normal value in marine water	0,002	mg/l
Normal value for fresh water sediment	6,33	mg/kg
Normal value for marine water sediment	6,33	mg/kg
Normal value for water, intermittent release	0,1	mg/l
Normal value of STP microorganisms	10000	mg/l
Normal value for the terrestrial compartment	1	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				25 mg/kg bw/d				
Inhalation				87 mg/m3				294 mg/m3
Skin				1250 mg/kg bw/d				2080 mg/kg bw/d

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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

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.
The following should be considered when choosing work glove material (see standard EN 374): 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 ISO 16321).
RESPIRATORY PROTECTION
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. 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).
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

Properties	Value	Information
Appearance	clear liquid	
Colour	emerald	
Odour	almond	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not applicable	
Lower explosive limit	not applicable	
Upper explosive limit	not applicable	
Flash point	> 100 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	9,20 - 9,60	Concentration: 5 %; Temperature: 20 °C
Kinematic viscosity	> 20,5 mm^2/s	Temperature: 40 °C
Solubility	emulsifiable in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	0,94 - 0,96 kg/dm^3	Temperature: 20 °C
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information
9.2.1. Information with regard to physical hazard classes
Information not available.

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	0,02 %
VOC (volatile carbon)	0,02 %
Explosive properties	not applicable

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-PHENOXYETHANOL
May form peroxides 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: heat, naked flames, direct sunlight, ignition sources.
2-PHENOXYETHANOL
Avoid exposure to: moisture, light.
ALCOHOLS, C16-18 AND C18-UNSATD., ETHOXYLATED
Avoid contact with: strong acids, oxidising agents.

10.5. Incompatible materials
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC
Incompatible with: strong acids, strong bases, oxidising agents.
2-PHENOXYETHANOL
Incompatible with: strong oxidising agents.
PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT
Incompatible with: acids, oxidising agents.

10.6. Hazardous decomposition products
Information not available.

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

Information on likely routes of exposure
Information not available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Information not available.

Interactive effects
Information not available.

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	not classified (no significant component)
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	not classified (no significant component)

SULFONIC ACIDS, PETROLEUM, SODIUM SALTS

LD50 (Dermal):	> 5000 mg/kg Rabbit
LC50 (Inhalation mists/powders):	> 1,9 mg/l/4h Rat

BIPHENYL-2-OL

LD50 (Dermal):	> 5000 mg/kg Rat (OECD 402)
LD50 (Oral):	2733 mg/kg Rat (OECD 401)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

LD50 (Dermal):	> 5000 mg/kg Rabbit (API 1982)
LD50 (Oral):	> 5000 mg/kg Rat (API 1986a)
LC50 (Inhalation vapours):	> 5,53 mg/l/4h Rat (EMBSI 1988a)

2-PHENOXYETHANOL

LD50 (Dermal):	2214 mg/kg Rabbit
LD50 (Oral):	1394 mg/kg Rat

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

LD50 (Dermal):	2000 mg/kg bw
STA (Dermal):	300 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral):	1208 mg/kg bw
LC50 (Inhalation mists/powders):	1,08 mg/m3

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 damage.

RESPIRATORY OR SKIN SENSITISATION
Does not meet the classification criteria for this hazard class.

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.

11.2. Information on other hazards
Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

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

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

LL50 – Fish	> 100 mg / l / 96h
LL50 – Crustaceans	> 10000 mg / l / 96h
NOEL - Algae / Aquatic Plants	> 100 mg / l / 72h
NOEL - Chronic Invertebrates	10 mg / l / 21d

SULFONIC ACIDS, PETROLEUM, SODIUM SALTS

LC50 - for Fish	> 10000 mg/l/96h
EC50 - for Crustacea	> 1000 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h

BIPHENYL-2-OL

LC50 - for Fish	4,5 mg/l/96h Danio rerio
EC50 - for Crustacea	2,7 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	3,57 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Fish	0,036 mg/l/21d Pimephales promelas
Chronic NOEC for Crustacea	0,009 mg/l/21d Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	0,468 mg/l/72h Pseudokirchneriella subcapitata

2-PHENOXYETHANOL

LC50 - for Fish	344 mg/l/96h Pimephales promelas
EC50 - for Crustacea	488 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Desmodesmus subspicatus
Chronic NOEC for Fish	23 mg/l Pimephales promelas
Chronic NOEC for Crustacea	9,43 mg/l Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	46 mg/l Desmodesmus subspicatus

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

LC50 - for Fish	0,00767 mg/l/96h (OECD 203)
EC50 - for Crustacea	0,022 mg/l/48h (OECD 202)

EC50 - for Algae / Aquatic Plants	0,46 mg/l/72h (OECD 201)

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

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

12.2. Persistence and degradability

BIPHENYL-2-OL

Rapidly degradable	70,8-75,7% - 28d (OECD 301B)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Solubility in water	Insoluble
Entirely degradable	

2-PHENOXYETHANOL

Solubility in water	25000 mg/l
Rapidly degradable	

PYRIDINE-2-THIOL 1-OXIDE, SODIUM SALT

Rapidly degradable	

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

Solubility in water	Insoluble
Rapidly degradable	> 70% - 28d (OECD TG 301 B)

12.3. Bioaccumulative potential

BIPHENYL-2-OL

Partition coefficient: n-octanol/water	3,18 Log Kow (OECD 107)
BCF	22

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

Partition coefficient: n-octanol/water	> 3

2-PHENOXYETHANOL

Partition coefficient: n-octanol/water	1,2
BCF	0,3493

12.4. Mobility in soil
Information not available.

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 ≥ than 0,1%.

12.6. Endocrine disrupting properties
Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. 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 or ID 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. Maritime transport in bulk according to IMO instruments
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/EU: none.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
Product
Point 3
Contained substance
Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
Not applicable.

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None.

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:
None.

Substances subject to the Rotterdam Convention:
None.

Substances subject to the Stockholm Convention:
None.

Healthcare controls
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)
WGK 3: severe hazard to waters.

15.2. Chemical safety assessment
A chemical safety assessment has not been performed for the mixture.

SECTION 16. Other information

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

Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
Asp. Tox. 1	Aspiration hazard, category 1
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
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
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H372	Causes damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
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.
EUH070	Toxic by eye contact.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

Classification and procedure used to derive it pursuant to Regulation (EC) 1272/2008 (CLP) in relation to mixtures:

Classification in accordance with Regulation (EC) n.1272/2008	Classification procedure
Eye Dam. 1 H318	Calculation method
Skin Irrit. 2 H315	Calculation method
Aquatic Chronic 3 H412	Calculation method

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) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) 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) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)

23. Delegated Regulation (UE) 2023/707
- 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.
CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:
The following sections were modified:
02 / 03 / 08 / 09 / 10 / 11 / 12 / 15 / 16.