

* Ozerna Polar

Date revised: 04.01.2024

8770090523

Version: 11 / GB

Master No. MA-211

Print date: 17.04.2024

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

1.1. Product identifier

Trade name

Ozerna Polar

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

Use of the substance/mixture

Detergents

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

BÜFA Cleaning GmbH & Co. KG

August-Hanken-Str. 30

26125 Oldenburg

Telephone no. +49 441 9317 0

Fax no. +49 441 9317 100

Information provided Department product safety / +49 441 9317 108

by / telephone

E-Mail sds-cleaning@buefa.de

1.4. Emergency telephone number

Poison Information Center Goettingen: +49 551 19240

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2 H315

Eye Dam. 1 H318

Skin Sens. 1A H317

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008**Hazard pictograms *******Signal word**

Danger

Hazard statements ***

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements ***

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P280.2 Wear protective gloves/ eye/ face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

* Ozerna Polar

Date revised: 04.01.2024

8770090523

Version: 11 / GB

Master No. MA-211

Print date: 17.04.2024

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains *** Potassium hydroxide; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.
 2-Methyl-2H-isothiazol-3-one; 2-Phenoxyethanol; (R)-p-mentha-1,8-diene; Fatty acids, ethoxylated

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****3.2. Mixtures****Hazardous ingredients *******Fatty acids, ethoxylated**

CAS No.	157627-86-6				
Concentration	>=	3	<	6,6	%
Acute Tox. 4	H302				
Eye Dam. 1	H318				
Aquatic Chronic 3	H412				

ATE	oral		1.000	mg/kg
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Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

CAS No.	85536-14-7				
EINECS no.	287-494-3				
Registration no.	01-2119490234-40-XXXX				
Concentration	>=	3	<	3,4	%
Acute Tox. 4	H302				
Skin Corr. 1C	H314				
Eye Dam. 1	H318				
Aquatic Chronic 3	H412				

cATpE	oral		500	mg/kg
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fatty alcohol alkoxyate

Registration no.	NICHT RELEVANT (POLYMER)				
Concentration	>=	1	<	3,3	%
Acute Tox. 4	H302				
Eye Irrit. 2	H319				
Aquatic Chronic 3	H412				
Aquatic Acute 1	H400				

cATpE	oral		500	mg/kg
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2-Phenoxyethanol

CAS No.	122-99-6				
EINECS no.	204-589-7				
Registration no.	01-2119488943-21-XXXX				
Concentration	>=	1	<	2,6	%
Acute Tox. 4	H302				
Eye Dam. 1	H318				
STOT SE 3	H335				

ATE	oral		1.394	mg/kg
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sodium cumenesulphonate

* Ozerna Polar

Date revised: 04.01.2024

8770090523

Version: 11 / GB

Master No. MA-211

Print date: 17.04.2024

CAS No.	15763-76-5				
EINECS no.	239-854-6				
Registration no.	01-2119489411-37-XXXX				
Concentration	>=	1	<	10	%
Eye Irrit. 2	H319				

Benzyl alcohol

CAS No.	100-51-6				
EINECS no.	202-859-9				
Registration no.	01-2119492630-38-XXXX				
Concentration	>=	1	<	1,9	%
Acute Tox. 4	H302				
Acute Tox. 4	H332				
Eye Irrit. 2	H319				

ATE	oral	1.620	mg/kg
cATpE	inhalative, Dust/Mist	1,5	mg/l
cATpE	inhalative, Vapors	11	mg/l

Potassium hydroxide

CAS No.	1310-58-3				
EINECS no.	215-181-3				
Registration no.	01-2119487136-33-XXXX				
Concentration	>=	0,5	<	0,65	%
Acute Tox. 4	H302				
Skin Corr. 1A	H314				
Met. Corr. 1	H290				

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	>= 0,5 < 2 %
Skin Corr. 1A	H314	>= 5 %
Skin Corr. 1B	H314	>= 2 < 5 %
Skin Irrit. 2	H315	>= 0,5 < 2 %

(R)-p-mentha-1,8-diene

CAS No.	5989-27-5				
EINECS no.	227-813-5				
Registration no.	01-2119529223-47-XXXX				
Concentration	>=	0,1	<	1	%
Aquatic Chronic 3	H412				
Aquatic Acute 1	H400				
Flam. Liq. 3	H226				
Skin Irrit. 2	H315				
Skin Sens. 1	H317				
Asp. Tox. 1	H304				

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1	M = 1
Aquatic Chronic 1	M = 1

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note C

2-Methyl-2H-isothiazol-3-one

CAS No.	2682-20-4				
EINECS no.	220-239-6				
Concentration	>=	0,0015	<	0,01	%
Acute Tox. 3	H301				
Acute Tox. 3	H311				
Skin Sens. 1	H317				
Acute Tox. 2	H330				
Skin Corr. 1B	H314				

* Ozerna Polar

Date revised: 04.01.2024

8770090523

Version: 11 / GB

Master No. MA-211

Print date: 17.04.2024

Aquatic Acute 1 H400
 Aquatic Chronic 1 H410
 Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Sens. 1A	H317	0,0015 %
Aquatic Acute 1	H400	M = 10

Further ingredients**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

CAS No.	34590-94-8	EINECS no.	252-104-2
Registration no.	01-2119450011-60-XXXX		
Concentration	>= 1 <	10 %	[3]

Note

[3] Substance with occupational exposure limits
 For explanation of abbreviations see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water.

After eye contact

In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution.
 Seek medical advice immediately.

After ingestion

Rinse out mouth and give plenty of water to drink. Seek medical advice immediately.

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

There is no further relevant information available

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

There is no further relevant information available

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Dry powder, Water spray jet

5.2. Special hazards arising from the substance or mixture

If a fire breaks out nearby, pressure build-up and danger of bursting are possible.

5.3. Advice for firefighters

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

High risk of slipping due to leakage/spillage of product. Use personal protective clothing.

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

* Ozerna Polar

Date revised: 04.01.2024

8770090523

Version: 11 / GB

Master No. MA-211

Print date: 17.04.2024

Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Observe the usual precautions for handling chemicals.

7.2. Conditions for safe storage, including any incompatibilities

Emptied containers may contain product residues and therefore must be handled with care. Reuse only after appropriate cleaning. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3. Specific end use(s)

No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

(2-Methoxymethylethoxy)-propanol (mixed isomers)

List EH40

Type WEL

Value 308 mg/m³ 50 ppm(V)

Maximum limit value; Skin resorption / sensibilisation: Sk; Pregnancy group; Status; Remarks: Sk

(2-Methoxymethylethoxy)-propanol (mixed isomers)

List IOELV

Type IOELV

Value 308 mg/m³ 50 ppm(V)

Maximum limit value; Skin resorption / sensibilisation: Sk; Pregnancy group; Status; Remarks: Skin

8.2. Exposure controls

General protective and hygiene measures

Observe the usual precautions for handling chemicals. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards. The following information on personal protective equipment (PPE) is to be understood as a suggestion. The selection of the necessary PPE must be considered by the employer depending on the activities to be carried out and the local conditions. If it is determined during the on-site risk assessment that there is no danger to the employee, there is no need to wear PPE or the scope of the PPE to be used can be adjusted accordingly.

Respiratory protection

Not necessary.

Hand protection

Chemical resistant gloves

Appropriate Material nitrile

Material thickness \geq 0,6 mmBreakthrough time $>$ 480 min

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection

Tightly fitting safety glasses

* Ozerna Polar

Date revised: 04.01.2024

8770090523

Version: 11 / GB

Master No. MA-211

Print date: 17.04.2024

Body protection

Clothing as usual in the chemical industry.

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

Physical state	liquid		
Colour	light yellow, clear		
Odour	Product specific		
Melting point			
Remarks	not determined		
Boiling point			
Remarks	not determined		
Flammability			
evaluation	not determined		
Explosion limits			
Remarks	not determined		
Flash point			
Value	> 100		°C
Ignition temperature			
Remarks	not determined		
Thermal decomposition			
Remarks	Not relevant		
pH value			
Value	appr. 9,2		
Viscosity			
Value	appr. 15		s
Temperature	20	°C	
Method	DIN 53211 4 mm		
Solubility in other solvents			
	not determined		
Octanol/water partition coefficient (log Pow)			
Remarks	Not relevant		
Vapour pressure			
Remarks	not determined		
Density			
Value	appr. 1,02		kg/l
Vapour density			
Remarks	not determined		
Particle characteristics			
Remarks	irrelevant (liquid)		
9.2. Other information			
Odour threshold			
Remarks	No data available		
Efflux time			
Value	appr. 15		s
Temperature	20	°C	
Method	DIN 53211 4 mm		

* Ozerna Polar

Date revised: 04.01.2024

8770090523

Version: 11 / GB

Master No. MA-211

Print date: 17.04.2024

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

Thermal decomposition

Remarks	Not relevant
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10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE	5.274	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
Based on available data, the classification criteria are not met.		

Acute oral toxicity (Components)

(2-Methoxymethylethoxy)-propanol (mixed isomers)

Species	rat	
LD50	5135	mg/kg

Fatty acids, ethoxylated

ATE	1000	mg/kg
Source	Estimated value	

2-Methyl-2H-isothiazol-3-one

Reference substance	2-Methyl-2H-isothiazol-3-one	
Species	rat	
LD50	120	mg/kg

2-Phenoxyethanol

Reference substance	2-phenoxyethanol	
ATE	1394	mg/kg
Source	Literature value	

Benzyl alcohol

Species	rat	
LD50	1620	mg/kg

Potassium hydroxide

Reference substance	potassium hydroxide ...%	
ATE	333	mg/kg

Acute dermal toxicity

Based on available data, the classification criteria are not met.

Acute dermal toxicity (Components)

(2-Methoxymethylethoxy)-propanol (mixed isomers)

Species	rabbit
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* Ozerna Polar

Date revised: 04.01.2024

8770090523

Version: 11 / GB

Master No. MA-211

Print date: 17.04.2024

LD50 9510 mg/kg

2-Methyl-2H-isothiazol-3-one

Reference substance 2-Methyl-2H-isothiazol-3-one

Species rat

LD50 242 mg/kg

2-Phenoxyethanol

Reference substance 2-phenoxyethanol

Species rabbit

LD50 > 2000 mg/kg

Source Literature value

Acute inhalational toxicity

ATE > 100 mg/l

Administration/Form Vapors

Method calculated value (Regulation (EC) No. 1272/2008)

ATE > 20 mg/l

Administration/Form Dust/Mist

Method calculated value (Regulation (EC) No. 1272/2008)

Based on available data, the classification criteria are not met.

Acute inhalative toxicity (Components)**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species rat

LC50 60 mg/l

Duration of exposure 4 h

2-Methyl-2H-isothiazol-3-one

Reference substance 2-Methyl-2H-isothiazol-3-one

Species rat

LC50 0,11 mg/l

Duration of exposure 4 h

Administration/Form Vapors

Benzyl alcohol

Reference substance benzyl alcohol

Species Rats (male/female)

LC50 > 4178 mg/m³

Duration of exposure 4 h

Skin corrosion/irritation

evaluation irritant

The classification criteria are met.

Serious eye damage/irritation

evaluation corrosive

The classification criteria are met.

Sensitization

evaluation May cause sensitization by skin contact.

The classification criteria are met.

Mutagenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)**Single exposure**

Based on available data, the classification criteria are not met.

Repeated exposure

* Ozerna Polar

Date revised: 04.01.2024

8770090523

Version: 11 / GB

Master No. MA-211

Print date: 17.04.2024

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity****(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species	guppy (<i>Poecilia reticulata</i>)		
LC50	>	1000	mg/l
Duration of exposure	96	h	
Method	OECD 203		

sodium cumenesulphonate

Reference substance	sodium cumenesulphonate		
Species	carp (<i>Cyprinus carpio</i>)		
LC50	>	100	mg/l
Duration of exposure	96	h	
Method	OECD 203		

2-Phenoxyethanol

Reference substance	2-phenoxyethanol		
Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	>	100	mg/l
Duration of exposure	96	h	
Durchfluss			
Source	Literature value		

Benzyl alcohol

Reference substance	benzyl alcohol		
Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50		460	mg/l
Duration of exposure	96	h	

Daphnia toxicity**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species	Daphnia magna		
LC50		1919	mg/l
Duration of exposure	48	h	
Species	Daphnia magna		
NOEC	>	0,5	mg/l
Duration of exposure	22	d	

sodium cumenesulphonate

Reference substance	sodium cumenesulphonate		
Species	Daphnia magna		
EC50	>	10	mg/l
Duration of exposure	48	h	
Method	OECD 202		

2-Phenoxyethanol

Reference substance	2-phenoxyethanol		
Species	Daphnia magna		
EC50	>	100	mg/l
Duration of exposure	48	h	

* Ozerna Polar

Date revised: 04.01.2024

8770090523

Version: 11 / GB

Master No. MA-211

Print date: 17.04.2024

Method OECD 202
Source Literature value

Benzyl alcohol

Reference substance benzyl alcohol
Species Daphnia magna
LC50 230 mg/l
Duration of exposure 48 h
Method OECD 202

Algae toxicity**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species Skeletonema costatum
EC50 6999 mg/l
Duration of exposure 72 h

sodium cumenesulphonate

Reference substance sodium cumenesulphonate
Species Desmodesmus subspicatus
EC50 > 100 mg/l
Duration of exposure 72 h

2-Phenoxyethanol

Reference substance 2-phenoxyethanol
Species Desmodesmus subspicatus
EC50 > 100 mg/l
Duration of exposure 72 h

Benzyl alcohol

Reference substance benzyl alcohol
Species Scenedesmus quadricauda
EC50 640 mg/l
Duration of exposure 96 h

Bacteria toxicity**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species Pseudomonas putida
EC10 4168 mg/l
Duration of exposure 18 h

sodium cumenesulphonate

Reference substance sodium cumenesulphonate
Species activated sludge
EC50 > 1000 mg/l
Duration of exposure 3 h

2-Phenoxyethanol

Reference substance 2-phenoxyethanol
Species activated sludge
NOEC 248 mg/l
Method OECD 209
Source Literature value

Benzyl alcohol

Reference substance benzyl alcohol
Species activated sludge
IC50 2100 mg/l
Duration of exposure 49 h

12.2. Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Biodegradability**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

* Ozerna Polar

Date revised: 04.01.2024

8770090523

Version: 11 / GB

Master No. MA-211

Print date: 17.04.2024

Value	75	%
Duration of test evaluation	28 d	
Method	Readily biodegradable (according to OECD criteria) OECD 301 F	

sodium cumenesulphonate

Reference substance	sodium cumenesulphonate	
Value	> 60	%
Duration of test evaluation	28 d	
Method	Readily biodegradable (according to OECD criteria) OECD 301 B	

Benzyl alcohol

Reference substance	benzyl alcohol	
Value	92 to 96	%
Duration of test evaluation	14 d	
Method	readily degradable OECD 301 C	

12.3. Bioaccumulative potential

For this subsection there is no ecotoxicological data available on the product as such.

Octanol/water partition coefficient (log Pow)

Remarks Not relevant

12.4. Mobility in soil

For this subsection there is no ecotoxicological data available on the product as such.

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

The product contains no PBT substances. The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

For this subsection there is no ecotoxicological data available on the product as such.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

* Ozerna Polar

Date revised: 04.01.2024

8770090523

Version: 11 / GB

Master No. MA-211

Print date: 17.04.2024

	Land transport ADR/RID	Marine transport IMDG/GGVSee
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.
14.2. UN proper shipping name	-	-
14.3. Transport hazard class(es)	-	-
14.4. Packing group	-	-
Label		
14.5. Environmental hazards	-	

Information for all modes of transport**14.6. Special precautions for user**

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

SECTION 15: Regulatory information *****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Ingredients (Regulation (EC) No 648/2004)****5 % or over but less than 15 %:**

non-ionic surfactants

less than 5 %:

anionic surfactants, polycarboxylates

Further ingredients ***

perfumes, 1,2-benzisothiazol-3(2H)-one, 2-Methyl-2H-isothiazol-3-one, 1,2-benzisothiazol-3(2H)-one, Alpha Methyl Ionone, Benzyl Salicylate, Citronellol, coumarin, Eugenol, geraniol, Hexyl Cinnamal, linalool, Orange, sweet, ext., (R)-p-mentha-1,8-diene, Benzyl alcohol

VOC ***

VOC (EU) 8,04 %

Other information

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

* Ozerna Polar

Date revised: 04.01.2024

8770090523

Version: 11 / GB

Master No. MA-211

Print date: 17.04.2024

Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1A	H317	Calculation method

Hazard statements listed in Chapter 2/3

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 2	Acute toxicity, Category 2
Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Corr. 1C	Skin corrosion, Category 1C
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
 GGVSee: Gefahrgutverordnung See
 IMDG: International Maritime Code for Dangerous Goods
 CAS: Chemical Abstracts Service
 EAK: Europäischer Abfallkatalog
 EINECS: European Inventory of Existing Commercial Chemical Substances
 VOC: Volatile Organic Compound
 GefStoffV: Gefahrstoffverordnung
 TA Luft: Technische Anleitung zur Reinhaltung der Luft
 INCI: International Nomenclature of Cosmetic Ingredients
 n.a.g.: nicht anders genannt
 MAK: Maximale Arbeitsplatz-Konzentration
 AGW: Arbeitsplatzgrenzwert
 BGW: Biologischer Grenzwert
 TRGS: Technische Regeln für Gefahrstoffe

*** Ozerna Polar**

Date revised: 04.01.2024

8770090523

Version: 11 / GB

Master No. MA-211

Print date: 17.04.2024

OEL: Occupational exposure limit

SUVA: Schweizerische Unfallversicherungsanstalt

WEL: Workplace exposure limit

MAC: Maximale aanvaarde concentratie (Netherlands)

MEL: Maximum exposure limits

NOEL: No observable effect level

NOEC: No observable effect concentration

LD: Lethal dose

LC: Lethal concentration

LLC: Lowest lethal concentration

PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very persistent and very bioaccumulative

SVHC: Substances of very high concern

DNEL: Derived no effect level

DMEL: Derived minimal effect level

PNEC: Predicted no effect concentration

PEC: Predicted environmental concentration

GHS: Globally Harmonized System of classification and Labelling of Chemicals

REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

UN: United Nations

EG: Europäische Gemeinschaft

EWG: Europäische Wirtschaftsgemeinschaft

EU: European Union

HSNO: Hazardous Substances and New Organisms Act (New Zealand)

ATE: Acute Toxicity Estimate

STOT: Specific Target Organ Toxicity

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.