

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : HPL-PLATTEN REINIGER  
Revision date : 08.03.2022  
Print date : 15.08.2022

Version (Revision) : 5.0.2 (5.0.1)

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

### 1.1 Product identifier

HPL-PLATTEN REINIGER

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

#### Relevant identified uses

PC 35 - Washing and cleaning products

### 1.3 Details of the supplier of the safety data sheet

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Bio-Circle Surface Technology GmbH

Street : Berensweg 200

Postal code/city : 33334 Gütersloh

Telephone : +49 5241 9443 0

Telefax : +49 5241 9443 44

Information contact : labor@bio-circle.de

### 1.4 Emergency telephone number

+49 5241 9443 51 during normal office hours

(Monday to Thursday from 8 am to 4 pm and Friday from 8 am to 3 pm)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

None

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

2-BUTOXYETHANOL ; REACH No. : 01-2119475108-36-XXXX ; EC No. : 203-905-0; CAS No. : 111-76-2

Weight fraction :  $\geq 5 - < 10$  %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 Substance with a common (EC) occupational exposure limit value.

Specific Conc. Limits : (ATE - oral : 1200 mg/kg)

AMMONIA, ANHYDROUS ; EC No. : 231-635-3; CAS No. : 7664-41-7

Weight fraction :  $\geq 0,1 - < 0,2$  %

Classification 1272/2008 [CLP] : Flam. Gas 2 ; H221 Press. Gas (Liq.) ; H280 Acute Tox. 3 ; H331 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Aquatic Acute 1 ; H400 EUH071 Substance with a common (EC) occupational exposure limit value.

ETHANOL ; REACH No. : 01-2119457610-43-XXXX ; EC No. : 200-578-6; CAS No. : 64-17-5

Weight fraction :  $\geq 5 - < 10$  %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319

Specific Conc. Limits : Eye Irrit. 2 ; H319: C  $\geq 50$  %

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## Additional information

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

#### Following inhalation

In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

#### After eye contact

Protect uninjured eye. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Call a physician immediately.

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

None

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water Foam Extinguishing powder Carbon dioxide (CO<sub>2</sub>) Sand Nitrogen Extinguishing blanket

#### Unsuitable extinguishing media

Full water jet

### 5.2 Special hazards arising from the substance or mixture

#### Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Co-ordinate fire-fighting measures to the fire surroundings. Move undamaged containers from immediate hazard area if it can be done safely.

### 5.4 Additional information

None

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3 Methods and material for containment and cleaning up

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. Treat the recovered material as prescribed in the section on waste disposal.

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## 6.4 Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Keep container tightly closed.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep/Store only in original container. Protect against : Frost .

#### Hints on joint storage

Storage class (TRGS 510) : 10

### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

ETHANOL ; CAS No. : 64-17-5

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 200 ppm / 380 mg/m<sup>3</sup>  
Peak limitation : 4(II)  
Remark : Y  
Version : 27.10.2020

2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 10 ppm / 49 mg/m<sup>3</sup>  
Peak limitation : 2(II)  
Remark : H,Y  
Version : 27.10.2020

Limit value type (country of origin) : STEL ( EC )  
Limit value : 50 ppm / 246 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019

Limit value type (country of origin) : TWA ( EC )  
Limit value : 20 ppm / 98 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019

AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 20 ppm / 14 mg/m<sup>3</sup>  
Peak limitation : 2(I)  
Remark : Y  
Version : 27.10.2020

Limit value type (country of origin) : STEL ( EC )  
Limit value : 50 ppm / 36 mg/m<sup>3</sup>  
Version : 20.06.2019

Limit value type (country of origin) : TWA ( EC )  
Limit value : 20 ppm / 14 mg/m<sup>3</sup>  
Version : 20.06.2019

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### Biological limit values

2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Butoxy acetic acid / Urine (U) / At long term exposure: after several previous shifts  
Limit value : 100 mg/l  
Version : 13.03.2020

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Butoxy acetic acid / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts  
Limit value : 150 mg/g Kr  
Version : 13.03.2020

### DNEL-/PNEC-values

#### DNEL/DMEL

2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 246 mg/m<sup>3</sup>

ETHANOL ; CAS No. : 64-17-5

Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 1900 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 950 mg/m<sup>3</sup>

2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 98 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 663 mg/m<sup>3</sup>

ETHANOL ; CAS No. : 64-17-5

Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 343 mg/kg

2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 75 mg/kg  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Short-term  
Limit value : 89 mg/kg

#### PNEC

2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 8,8 mg/l  
Limit value type : PNEC (Aquatic, marine water)

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Revision date : 08.03.2022  
Print date : 15.08.2022

Version (Revision) : 5.0.2 (5.0.1)

Limit value :	0,88 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	34,6 mg/kg
Limit value type :	PNEC (Soil)
Limit value :	2,33 mg/kg
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	463 mg/l
ETHANOL ; CAS No. : 64-17-5	
Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	0,96 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0,79 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	3,6 mg/l
Limit value type :	PNEC (Sediment, marine water)
Limit value :	2,9 mg/kg
Limit value type :	PNEC (Soil)
Limit value :	0,63 mg/l
Limit value type :	PNEC (Secondary poisoning)
Limit value :	0,72 mg/kg
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	580 mg/l

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection



Wear suitable safety goggles in case of splash.

**Suitable eye protection**  
EN 166.

#### Skin protection

##### Hand protection



**Suitable gloves type** : EN 374.

**Suitable material** : NBR (Nitrile rubber)

**Breakthrough time (maximum wearing time)** : 480 min.

**Thickness of the glove material** : 0.4 mm

**Remark** : The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

#### Respiratory protection



Respiratory protection necessary at: exceeding exposure limit values

**Suitable respiratory protection apparatus**

Combination filtering device (EN 14387)

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Version (Revision) : 5.0.2 (5.0.1)

Type : A

#### Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

#### General information

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. P362+P364 - Take off contaminated clothing and wash it before reuse. P264 - Wash hands thoroughly after handling.

#### 8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state : Liquid

Colour : colourless

#### Odour

characteristic

#### Safety characteristics

Solidifying point :	( 1013 hPa )	approx.	-4,5 °C	
Initial boiling point and boiling range :	( 1013 hPa )	approx.	90 °C	
Flash point :			47 °C	
Auto-ignition temperature :			not relevant	
Lower explosion limit :			not relevant	
Upper explosion limit :			not relevant	
Vapour pressure :	( 50 °C )	<	1000 hPa	
Density :	( 20 °C )	approx.	0,98 g/cm <sup>3</sup>	
Water solubility :	( 20 °C )		completely miscible	
pH :			10,8	
Flow time :	( 20 °C )	approx.	19 s	DIN-cup 4 mm
Maximum VOC content (EC) :			13 Wt %	
Maximum VOC content (Switzerland) :			13 Wt %	

### 9.2 Other information

Not sustaining combustion

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

### 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of hazardous reactions

Do not spray on naked flames or any incandescent material.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

No information available.

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Print date : 15.08.2022

Version (Revision) : 5.0.2 (5.0.1)

## 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.  
Decomposition products in case of fire: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Acute oral toxicity

Parameter : ATEmix calculated  
Exposure route : Oral  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 350 mg/kg  
Parameter : LD50 ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 10470 mg/kg  
Method : OECD 401  
Parameter : LD50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1250 - 1490 mg/kg  
Method : OECD 401

##### Acute dermal toxicity

Parameter : ATEmix calculated  
Exposure route : Dermal  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 841 mg/kg  
Method : OECD 402  
Parameter : LD50 ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 20 g/kg

##### Acute inhalation toxicity

Parameter : ATEmix calculated  
Exposure route : Inhalation (vapour)  
Effective dose : > 20 mg/l  
Parameter : ATEmix calculated  
Exposure route : Inhalation (gas)  
Effective dose : > 20000 ml/m<sup>3</sup>  
Parameter : ATEmix calculated  
Exposure route : Inhalation (dust/mist)  
Effective dose : > 5 mg/l  
Parameter : LC50 ( AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7 )  
Exposure route : Inhalation  
Species : Mouse  
Effective dose : 4230 ppm  
Parameter : LC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation

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Revision date : 08.03.2022  
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Version (Revision) : 5.0.2 (5.0.1)

Species : Rat  
Effective dose : 116,9 - 133,8 mg/l  
Exposure time : 4 h  
Method : OECD 403  
Parameter : LC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 2 - 20 mg/l  
Exposure time : 4 h

## Corrosion

### Skin corrosion/irritation

No further relevant information available.

### Serious eye damage/eye irritation

No further relevant information available.

## Respiratory or skin sensitisation

### Skin sensitisation

No further relevant information available.

### Sensitisation to the respiratory tract

No further relevant information available.

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Carcinogenicity

No further relevant information available.

### Germ cell mutagenicity

No further relevant information available.

### Reproductive toxicity

No further relevant information available.

## STOT-single exposure

No further relevant information available.

## STOT-repeated exposure

No further relevant information available.

## Aspiration hazard

No further relevant information available.

## 11.2 Information on other hazards

### Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

### Other adverse effects

May be absorbed through the skin. Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

### Additional information

Preparation not tested. The statement is derived from the properties of the single components.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : LC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 14,2 g/l  
Exposure time : 96 h



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Version (Revision) : 5.0.2 (5.0.1)

Parameter : LC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 1474 mg/l  
Exposure time : 96 h  
Method : OECD 203

#### Chronic (long-term) fish toxicity

Parameter : NOEC ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Brachydanio rerio (zebra-fish)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 250 mg/l  
Exposure time : 120 h  
Method : OECD 212

Parameter : NOEC ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Brachydanio rerio (zebra-fish)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : > 100 mg/l  
Exposure time : 21 D  
Method : OECD 204

#### Acute (short-term) toxicity to crustacea

Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Daphnia  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : 5012 mg/l  
Exposure time : 48 h

Parameter : EC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : 1550 mg/l  
Exposure time : 48 h  
Method : DIN 38412 / part 11

#### Chronic (long-term) toxicity to crustacea

Parameter : NOEC ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Daphnia  
Evaluation parameter : Chronic (long-term) toxicity to crustacea  
Effective dose : 9,6 mg/l  
Exposure time : 10 D

Parameter : NOEC ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) toxicity to crustacea  
Effective dose : 100 mg/l  
Exposure time : 21 D  
Method : OECD 211

#### Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Chlorella vulgaris  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 675 mg/l  
Exposure time : 4 D  
Method : OECD 201

Parameter : EC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) toxicity to aquatic algae and cyanobacteria  
Effective dose : 1840 mg/l  
Exposure time : 72 h  
Method : OECD 201

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



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Revision date : 08.03.2022  
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Version (Revision) : 5.0.2 (5.0.1)

## Chronic (long-term) algae toxicity

Parameter : NOEC ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Chronic (long-term) algae toxicity  
Effective dose : 286 mg/l  
Exposure time : 72 h  
Method : OECD 201

## Toxicity to microorganisms

Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Bacteria toxicity  
Effective dose : 5,8 g/l  
Exposure time : 4 h

## 12.2 Persistence and degradability

According to the recipe, contains no AOX.

### Biodegradation

Parameter : Biodegradation ( ETHANOL ; CAS No. : 64-17-5 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : approx. 84 %  
Test duration : 20 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Parameter : Biodegradation ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Inoculum : Biodegradation  
Degradation rate : 88 %  
Test duration : 20 D

## 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6 Endocrine disrupting properties

No information available.

## 12.7 Other adverse effects

No information available.

## 12.8 Additional ecotoxicological information

After neutralisation, reduction in toxic effects is observed.

## SECTION 13: Disposal considerations

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. List of proposed waste codes/waste designations in accordance with EWC

### 13.1 Waste treatment methods

#### Directive 2008/98/EC (Waste Framework Directive)

##### Before intended use

##### Waste codes/waste designations according to EWC/AVV

07 06 01\* - aqueous washing liquids and mother liquors  
20 01 29\* - detergents containing dangerous substances.

## SECTION 14: Transport information

### 14.1 UN number

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Version (Revision) : 5.0.2 (5.0.1)

- No dangerous good in sense of these transport regulations.
- 14.2 UN proper shipping name**  
No dangerous good in sense of these transport regulations.
- 14.3 Transport hazard class(es)**  
No dangerous good in sense of these transport regulations.
- 14.4 Packing group**  
No dangerous good in sense of these transport regulations.
- 14.5 Environmental hazards**  
No dangerous good in sense of these transport regulations.
- 14.6 Special precautions for user**  
None
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**  
No transport as bulk according to IBC Code.

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- EU legislation**
- Authorisations and/or restrictions on use**
- Restrictions on use**  
Use restriction according to REACH annex XVII, no. : 40
- Restrictions of occupation**  
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
- Other regulations (EU)**
- Labelling for contents according to regulation (EC) No. 648/2004**  
None
- National regulations**
- Störfallverordnung**  
Category : P5b FLAMMABLE LIQUIDS
- Technische Anleitung Luft (TA-Luft)**  
Weight fraction (Number 5.2.5. I) : < 5 %  
Weight fraction (Number 5.2.4. III) : < 1 %
- Water hazard class (WGK)**  
Classification according to AwSV - Class : 1 (Slightly hazardous to water)
- 15.2 Chemical safety assessment**  
For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

- 16.1 Indication of changes**  
11. Acute inhalation toxicity
- 16.2 Abbreviations and acronyms**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die Beförderung gefährlicher Güter auf der Straße)  
AOX: adsorbierbare organisch gebundene Halogene  
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen  
CAS: Chemical Abstracts Service (Unterabteilung der American Chemical Society)  
CLP: Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (Classification Labelling and Packaging)  
EAK / AVV: europäischer Abfallartenkatalog / Abfallverzeichnis-Verordnung

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ECHA: Europäische Chemikalienagentur (European Chemicals Agency)  
EINECS: : Altstoffverzeichnis (European Inventory of Existing Commercial Chemical Substances)  
GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien (Globally Harmonized System of Classification and Labelling of Chemicals)  
IATA: Internationale Luftverkehrs-Vereinigung (International Air Transport Association)  
ICAO: Internationale Zivilluftfahrtorganisation (International Civil Aviation Organization)  
IMDG: Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffverkehr (International Maritime Code for Dangerous Goods)  
RID: Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr (Règlement concernant le transport international ferroviaire de marchandises dangereuses)  
TRGS: Technische Regel für den Umgang mit Gefahrstoffen  
VbF: Verordnung über brennbare Flüssigkeiten  
VOC: flüchtige organische Verbindung (volatile organic compound)  
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe  
WGK: Wassergefährdungsklasse

## 16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank  
ECHA: Classification And Labelling Inventory  
ECHA: Pre-registered Substances  
ECHA: Registered Substances  
EC\_Safety Data Sheet of Suppliers  
ESIS: European Chemical Substances Information System  
GDL: Gefahrstoffdatenbank der Länder  
UBA Rigoletto: Wassergefährdende Stoffe  
Regulation (EC) No. 1907/2006 of the European Parliament and of the Council  
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

## 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

## 16.5 Relevant H- and EUH-phrases (Number and full text)

H221	Flammable gas.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
EUH071	Corrosive to the respiratory tract.

## 16.6 Training advice

None

## 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.