

# Safety Data Sheet

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



Trade name : Bio Grease-Ex  
Revision date : 03.04.2023  
Print date : 27.06.2023

Version (Revision) : 3.1.2 (3.1.1)

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

### 1.1 Product identifier

Bio Grease-Ex

### 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

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]

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

### 2.2 Label elements

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

##### Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

##### Signal word

Warning

##### Hazard components for labelling

1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2

##### Hazard statements

H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

##### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P312 Call a POISON CENTER/doctor/... if you feel unwell.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

## 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

1-METHOXY-2-PROPANOL ; REACH No. : 01-2119457435-35-XXXX ; EC No. : 203-539-1; CAS No. : 107-98-2

Weight fraction :  $\geq 50 - < 100$  %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336  
Substance with a common (EC) occupational exposure limit value.

1-PROPOXY-2-PROPANOL ; REACH No. : 01-2119474443-37-XXXX ; EC No. : 216-372-4; CAS No. : 1569-01-3

Weight fraction :  $\geq 10 - < 25$  %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Eye Irrit. 2 ; H319

2-METHOXYPROPANOL ; EC No. : 216-455-5; CAS No. : 1589-47-5

Weight fraction :  $< 0,3$  %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Repr. 1B ; H360D Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 STOT SE 3 ; H335 O220

#### Additional information

For full text of Hazard- and EU Hazard-statements: 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. Remove contaminated, saturated clothing immediately.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest.

#### 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

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. Protect uninjured eye.

#### Following 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.

#### Self-protection of the first aider

First aider: Pay attention to self-protection!

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

Causes serious eye irritation. May cause drowsiness or dizziness.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

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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

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>) , Carbon monoxide Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers. Apply foam in abundant quantities since some of it gets destroyed by the product. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

#### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control. Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

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

Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation.

### 6.2 Environmental precautions

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

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

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

### 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

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P243 - Take action to prevent static discharges. P405 - Store locked up. Keep container tightly closed. Provide adequate ventilation as well as local exhaust at critical locations.

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

Ensure adequate ventilation of the storage area. Keep container tightly closed in a cool, well-ventilated place.

#### Hints on joint storage

Storage class (TRGS 510) : 3

#### Keep away from

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

### 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

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1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 100 ppm / 370 mg/m<sup>3</sup>  
Peak limitation : 2(l)  
Remark : Y  
Version : 23.06.2022  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 150 ppm / 568 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 100 ppm / 375 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019  
2-METHOXYPROPANOL ; CAS No. : 1589-47-5  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 5 ppm / 19 mg/m<sup>3</sup>  
Peak limitation : 2(l)  
Remark : H, Z  
Version : 23.06.2022

## Biological limit values

1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : 1-methoxypropan-2-ol / Urine (U) / End of exposure or end of shift  
Limit value : 15 mg/l  
Version : 25.02.2022

## DNEL-/PNEC-values

### DNEL/DMEL

1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 553,5 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 369 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 50,6 mg/kg  
1-PROPOXY-2-PROPANOL ; CAS No. : 1569-01-3  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 217 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 9 mg/kg

## 8.2 Exposure controls

### Personal protection equipment

### Eye/face protection

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Wear suitable safety goggles in case of splash.

**Suitable eye protection**  
EN 166.

## Skin protection

### Hand protection



**Suitable gloves type** : EN 374.  
**Suitable material** : Butyl caoutchouc (butyl rubber)  
**Breakthrough time** : 480 min.  
**Thickness of the glove material** : 0.3 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  
Type : A

### Remark

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

## General information

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

## 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. -80 °C

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Initial boiling point and boiling range :	( 1013 hPa )	approx.	120 °C	
Flash point :		approx.	35 °C	DIN EN ISO 13736
Auto-ignition temperature :		approx.	280 °C	
Flammability :			flammable	
Lower explosion limit :			1,5 Vol-%	
Upper explosion limit :			13,7 Vol-%	
Vapour pressure :	( 50 °C )		not determined	
Density :	( 20 °C )	approx.	0,9 g/cm <sup>3</sup>	
Water solubility :	( 20 °C )		practically insoluble	
pH :	( 20 °C )		not applicable	
Cinematic viscosity :	( 20 °C )	<	40 mm <sup>2</sup> /s	
Relative vapour density :	( 20 °C )		not determined	
Maximum VOC content (EC) :			100 Weight-%	
Maximum VOC content (Switzerland) :			100 Weight-%	
Taxable VOC content (Switzerland) :			80 Weight-%	

## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Violent reaction with: Oxidising agent, strong. Formation of: Peroxides.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5 Incompatible materials

No information available.

### 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
Exposure route :	Oral
Effective dose :	> 2000 mg/kg
Parameter :	LD50 ( 1-PROPOXY-2-PROPANOL ; CAS No. : 1569-01-3 )
Exposure route :	Oral
Species :	Rat
Effective dose :	2490 - 4330 mg/kg
Method :	OECD 401
Parameter :	LD50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )
Exposure route :	Oral
Species :	Rat
Effective dose :	3739 - 4277 mg/kg

##### Acute dermal toxicity

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Parameter : ATEmix  
Exposure route : Dermal  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( 1-PROPOXY-2-PROPANOL ; CAS No. : 1569-01-3 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 3775 - 4330 mg/kg  
Method : OECD 402  
Parameter : LD50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Method : Regulation (EC) No. 440/2008, Annex B.3

### Acute inhalation toxicity

Parameter : ATEmix  
Exposure route : Inhalation  
Effective dose : > 20 ppm  
Parameter : LC50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Inhalation  
Species : Mouse  
Effective dose : 6000 - 7000 ppm  
Exposure time : 6 h  
Method : OECD 403  
Parameter : LC50 ( 1-PROPOXY-2-PROPANOL ; CAS No. : 1569-01-3 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 1725 ppm  
Exposure time : 6 h  
Method : OECD 403

### Corrosion

#### Skin corrosion/irritation

No further relevant information available.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

### 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

May cause drowsiness or dizziness.

### STOT-repeated exposure

No further relevant information available.

### Aspiration hazard

No further relevant information available.

## 11.2 Information on other hazards

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### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### Toxicokinetics, metabolism and distribution

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

### Other adverse effects

May be absorbed through the skin. Has degreasing effect on the skin. Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

### 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 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 20800 mg/l  
Exposure time : 96 h

Parameter : LC50 ( 1-PROPOXY-2-PROPANOL ; CAS No. : 1569-01-3 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 100 mg/l  
Exposure time : 96 h

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

Parameter : EC50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 21100 - 25900 mg/l  
Exposure time : 48 h

Parameter : EC50 ( 1-PROPOXY-2-PROPANOL ; CAS No. : 1569-01-3 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 100 mg/l  
Exposure time : 48 h

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

Parameter : EC50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 7 D

Parameter : EC50 ( 1-PROPOXY-2-PROPANOL ; CAS No. : 1569-01-3 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 5583 mg/l  
Exposure time : 48 h

##### Toxicity to microorganisms

Parameter : EC50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 10000 mg/l  
Exposure time : 17 h



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Method : DIN 38412 / part 8

## 12.2 Persistence and degradability

### Biodegradation

Parameter : DOC reduction ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 96 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301E

Parameter : DOC reduction ( 1-PROPOXY-2-PROPANOL ; CAS No. : 1569-01-3 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 91,5 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301A

## 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

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7 Other adverse effects

No information available.

## 12.8 Additional ecotoxicological information

Discharge into the environment must be avoided.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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

##### Before intended use

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

20 01 29\* (Detergents containing hazardous substances)  
07 06 04\* (Other organic solvents, washing liquids and mother liquors)

##### Other disposal recommendations

Dispose of waste according to applicable legislation. Dispose of contents/container to an appropriate recycling or disposal facility. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

### 13.2 Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## SECTION 14: Transport information

### 14.1 UN number

UN 1993

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**14.2 UN proper shipping name**

**Land transport (ADR/RID)**

FLAMMABLE LIQUID, N.O.S. ( 1-METHOXY-2-PROPANOL · 1-PROPOXY-2-PROPANOL )

**Sea transport (IMDG)**

FLAMMABLE LIQUID, N.O.S. ( 1-METHOXY-2-PROPANOL · 1-PROPOXY-2-PROPANOL )

**Air transport (ICAO-TI / IATA-DGR)**

FLAMMABLE LIQUID, N.O.S. ( 1-METHOXY-2-PROPANOL · 1-PROPOXY-2-PROPANOL )

**14.3 Transport hazard class(es)**

**Land transport (ADR/RID)**

Class(es) : 3  
Classification code : F1  
Hazard identification number (Kemler No.) : 30  
Tunnel restriction code : D/E  
Special Provisions : LQ 5 I · E 1  
Hazard label(s) :



3

**Sea transport (IMDG)**

Class(es) : 3  
EmS-No. : F-E / S-E  
Special Provisions : LQ 5 I · E 1  
Hazard label(s) :



3

**Air transport (ICAO-TI / IATA-DGR)**

Class(es) : 3  
Special Provisions : E 1  
Hazard label(s) :



3

**14.4 Packing group**

III

**14.5 Environmental hazards**

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

**14.6 Special precautions for user**

None

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

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

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## Authorisations and/or restrictions on use

### Restrictions on use

Use restriction according to REACH annex XVII, no. : 3, 30, 40, 75

### Restrictions of occupation

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).  
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

> 30 % aliphatic hydrocarbons

### National regulations

#### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

#### Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

#### Water hazard class

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

09. Safety characteristics · 11. Endocrine disrupting properties · 12. Endocrine disrupting properties

### 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

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)

VVEA: Verordnung über die Vermeidung und die Entsorgung von Abfällen

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

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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]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Evaluation

Flam. Liq. 3 : Flash point (°C) EN ISO 13736

Eye Irrit. 2A : Calculation method.

STOT SE 3 : Calculation method.

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

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.

## 16.6 Training advice

None

## 16.7 Additional information

None

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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.

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