



REIN ABER RICHTIG
E.MAYR REINIGUNGSTECHNIK

SAFETY DATA SHEET

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

Revision date: 13 May 2025

Print date: 26 Jan 2026

Version: 1

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

1.1. Product identifier

Trade name/designation:

LiGreen Restroclean - Item No.:4376 -12x1l/Item No.:4377 - 10l

UFI:

FJNR-JWVT-R78U-XMQ7

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

Use of the substance/mixture:

Fettlöser

Nur für den industriellen und gewerblichen Gebrauch.

1.3. Details of the supplier of the safety data sheet

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

E.MAYR Reinigungstechnik GesmbH

Ortsstraße 285

A-2331 Vösendorf

Austria

Telephone: +43 (0) 1 699 17 64 -0

Telefax: +43 (0) 1 699 17 64 - 33

E-mail:office@e-mayr.at

Website: www.reinaberrichtig.at

1.4. Emergency telephone number

24h: Poison Control Centre for Austria Phone: +43 (0)1/406 43 43-0

SECTION 2: Hazards identification

* 2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	

* 2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

Hazard components for labelling:

decyl D-glucoside

Hazard statements for health hazards	
H319	Causes serious eye irritation.

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Supplemental hazard information: none

Precautionary statements Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

Precautionary statements Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Special rules for supplemental label elements for certain mixtures:

2,4 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

3,6 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

9,8 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

Description:

aqueous solution

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 105-59-9 EC No.: 203-312-7 Index No.: 603-079-00-5 REACH No.: 01-2119488970-24-XXXX	2,2'-methyliminodiethanol Eye Irrit. 2 (H319) ⚠ Warning Acute Toxicity Estimate ATE (oral) 4,680 mg/kg ATE (dermal) > 2,000 mg/kg	3 - ≤ 5 weight-%
CAS No.: 54549-25-6 EC No.: 259-218-1 REACH No.: 01-2119489418-23	decyl D-glucoside Eye Dam. 1 (H318), Skin Irrit. 2 (H315) ⚠ Danger Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg	0 - < 1.2 weight-%
CAS No.: 100-79-8 EC No.: 202-888-7	2,2-dimethyl-1,3-dioxolan-4-ylmethanol Eye Irrit. 2 (H319) ⚠ Warning Acute Toxicity Estimate ATE (oral) 7,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) 5.11 mg/L	0 - ≤ 1 weight-%
CAS No.: 770-35-4 EC No.: 212-222-7	1-phenoxypropan-2-ol Eye Irrit. 2 (H319) ⚠ Warning Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 5 mg/L	0 - ≤ 1 weight-%
CAS No.: 78-93-3 EC No.: 201-159-0 Index No.: 606-002-00-3 REACH No.: 01-2119457290-43-XXXX	butanone Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) ⚠ Danger EUH066	0 - ≤ 0.02 weight-%

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

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SECTION 4: First aid measures

* 4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. 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. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion:

Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

Use personal protection equipment.

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

Serious eye damage/eye irritation, Atemnot, Schmerzen, Kollaps, Erblindungsgefahr

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

Treat symptomatically.

SECTION 5: Firefighting measures

* 5.1. Extinguishing media

Suitable extinguishing media:

Auf Umgebung abstimmen Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media:

keine Full water jet

* 5.2. Special hazards arising from the substance or mixture

Nicht brennbar. The product itself does not burn.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

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

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety. Special danger of slipping by leaking/spilling product.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

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6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

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

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

* 7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Avoid contact with skin, eyes and clothes. Open windows to ensure natural ventilation. Wear personal protection equipment (refer to section 8).

Fire prevent measures:

No special fire protection measures are necessary. No special measures are necessary.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

* 7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Storage class (TRGS 510, Germany): 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Industrial sector specific solutions:

Maintenance cleaner, solvent free, irritant (including severe eye damage)

GISCODE:

GU73

SECTION 8: Exposure controls/personal protection

* 8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³)
MAK (AT)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	② 2,000 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	② 4 mg/m ³ ⑤ (einatembare Fraktion max. 8x5 min./Schicht, Momentanwert)
MAK (AT)	sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	① 2 mg/m ³ ⑤ (einatembare Fraktion)

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 100 ppm (295 mg/m ³) ⑤ (kann über die Haut aufgenommen werden) H
MAK (AT)	butanone CAS No.: 78-93-3 EC No.: 201-159-0	② 200 ppm (590 mg/m ³) ⑤ (max. 4x30 min./Schicht, kann über die Haut aufgenommen werden) H
IOELV (EU)	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (900 mg/m ³)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	1 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	1 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

Other protection measures:

Protective clothing.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Form: Liquid

Colour: beige

Odour: characteristic

flammability: No

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	11.1	
Melting point	No data available	

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Parameter	Value	① Method ② Remark
Freezing point	No data available	
Initial boiling point and boiling range	No data available	
Flash point	not applicable	
Evaporation rate	No data available	
Auto-ignition temperature	not applicable	
Upper/lower flammability or explosive limits	No data available	
Vapour pressure	No data available	
Vapour density	No data available	
Density	No data available	
Bulk density	not applicable	
Water solubility	No data available	
Dynamic viscosity	No data available	
Kinematic viscosity	No data available	

9.2. Other information

No data available

SECTION 10: Stability and reactivity

* 10.1. Reactivity

Exothermic reaction with:Acids The product itself does not burn.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Violent reaction with:Acid, concentrated White/yellow phosphor Light metal

10.4. Conditions to avoid

Avoid high temperatures or direct sunlight.

10.5. Incompatible materials

Acid, Aluminium , Light metal,Oxidising agent, strong

* 10.6. Hazardous decomposition products

In case of fire: Gases/vapours, toxic

SECTION 11: Toxicological information

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

2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7
LD₅₀ oral: 4,680 mg/kg (Ratte) OECD Prüfrichtlinie 401
LD₅₀ dermal: >2,000 mg/kg
decyl D-glucoside CAS No.: 54549-25-6 EC No.: 259-218-1
LD₅₀ oral: >5,000 mg/kg (Ratte) OECD Prüfrichtlinie 401
2,2-dimethyl-1,3-dioxolan-4-ylmethanol CAS No.: 100-79-8 EC No.: 202-888-7
LD₅₀ oral: 7,000 mg/kg (Ratte)
LD₅₀ dermal: >2,000 mg/kg (Ratte)
LC₅₀ Acute inhalation toxicity (dust/mist): 5.11 mg/L 4 h (Ratte)
1-phenoxypropan-2-ol CAS No.: 770-35-4 EC No.: 212-222-7
LD₅₀ oral: >2,000 mg/kg (Ratte)
LD₅₀ dermal: >2,000 mg/kg (Ratte)
LC₅₀ Acute inhalation toxicity (vapour): >5 mg/L 4 h (Ratte)

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Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

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

Additional information:

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

* 12.1. Toxicity

2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7
LC ₅₀ : 1,466 mg/L 4 d (fish, <i>Leuciscus idus</i> (Goldorfe))
EC ₅₀ : >100 mg/L 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i> (Grünalge))
NOEC: 6.25 mg/L 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i> (Grünalge))
decyl D-glucoside CAS No.: 54549-25-6 EC No.: 259-218-1
LC ₅₀ : >1 - 10 mg/L 4 d (fish, <i>Danio rerio</i> (Zebraabärbling)) OECD Prüfrichtlinie 203
EC ₅₀ : >1 - 10 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Großer Wasserfloh)) OECD- Prüfrichtlinie 202
NOEC: >1 - 10 mg/L 3 d (Algae/water plant, <i>Skeletonema costatum</i> (Kieselalge))
2,2-dimethyl-1,3-dioxolan-4-ylmethanol CAS No.: 100-79-8 EC No.: 202-888-7
LC ₅₀ : 16,700 mg/L 4 d (fish)
EC ₅₀ : >92 mg/L 3 d (Algae/water plant)
EC ₅₀ : >96 mg/L 2 d (crustaceans)
NOEC: 10 mg/L 21 d (crustaceans)
1-phenoxypropan-2-ol CAS No.: 770-35-4 EC No.: 212-222-7
LC ₅₀ : >100 mg/L 4 d (fish, Belebtschlamm)
EC ₅₀ : >100 mg/L 2 d (fish)
EC ₅₀ : >100 mg/L 3 d (<i>Scenedesmus subspicatus</i>)
butanone CAS No.: 78-93-3 EC No.: 201-159-0
LC ₅₀ : 2,993 mg/L 4 d (fish, <i>Pimephales promelas</i>) OECD Prüfrichtlinie 203
EC ₅₀ : 308 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) OECD-Prüfrichtlinie 202

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* 12.2. Persistence and degradability

2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7
Biodegradation: Yes, rapidly
decyl D-glucoside CAS No.: 54549-25-6 EC No.: 259-218-1
Biodegradation: Yes, rapidly
butanone CAS No.: 78-93-3 EC No.: 201-159-0
Biodegradation: Yes, rapidly

* 12.3. Bioaccumulative potential

2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7
Log K_{OW}: -1.16
Bioconcentration factor (BCF): < 100
butanone CAS No.: 78-93-3 EC No.: 201-159-0
Log K_{OW}: 0.3

12.4. Mobility in soil

No data available

* 12.5. Results of PBT and vPvB assessment

2,2'-methyliminodiethanol CAS No.: 105-59-9 EC No.: 203-312-7
Results of PBT and vPvB assessment: —
decyl D-glucoside CAS No.: 54549-25-6 EC No.: 259-218-1
Results of PBT and vPvB assessment: —
2,2-dimethyl-1,3-dioxolan-4-ylmethanol CAS No.: 100-79-8 EC No.: 202-888-7
Results of PBT and vPvB assessment: —
1-phenoxypropan-2-ol CAS No.: 770-35-4 EC No.: 212-222-7
Results of PBT and vPvB assessment: —
butanone CAS No.: 78-93-3 EC No.: 201-159-0
Results of PBT and vPvB assessment: —

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

* 13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

07 06 01 *	(07) WASTES FROM ORGANIC CHEMICAL PROCESSES (06) Wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics (01 *) aqueous washing liquids and mother liquors
20 01 29 *	(20) MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS (01) separately collected fractions (except 15 01) (29 *) Detergents containing hazardous substances

*: Evidence for disposal must be provided.

Waste code packaging

20 01 39	(20) MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS (01) separately collected fractions (except 15 01) (39) plastics
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Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU legislation

Authorisations:

EU legislation

Labelling for contents according to regulation (EC) No. 648/2004

anionic surfactants less than 5%

non-ionic surfactants less than 5%

National regulations

Hazardous Substances Ordinance (GefStoffV)

Minimum protective measures according to TRGS 500

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Regeln (DGUV-Regeln)

15.1.2. National regulations

No data available

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

2.1.	Classification of the substance or mixture
2.2.	Label elements
3.2.	Mixtures

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4.1.	Description of first aid measures
4.2.	Most important symptoms and effects, both acute and delayed
5.1.	Extinguishing media
5.2.	Special hazards arising from the substance or mixture
7.1.	Precautions for safe handling
7.2.	Conditions for safe storage, including any incompatibilities
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
10.1.	Reactivity
10.6.	Hazardous decomposition products
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
13.1.	Waste treatment methods
15.3.	Additional information
16.1.	Indication of changes
16.2.	Abbreviations and acronyms
16.3.	Key literature references and sources for data
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

* 16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

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* 16.3. Key literature references and sources for data

Substance name	Type	source of supply
1-phenoxypropan-2-ol CAS No.: 770-35-4 EC No.: 212-222-7	Classification of the substance or mixture	Source: European Chemicals Agency, http://echa.europa.eu/

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6. Training advice

No data available

16.7. Additional information

The information is based on our current level of knowledge and is used to describe the product with regard to the safety precautions to be taken. They do not represent a guarantee of the properties of the product described.

It is the responsibility of the recipient of our product to observe existing laws and regulations.

* Data changed compared with the previous version.