

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.02.2024

Version number 16

Revision: 20.02.2024

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

- **1.1 Product identifier**
- **Trade name:** Scheibenklar Winter Konzentrat
- **Article number:** 6860XX
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Cleaning agent/ Cleaner
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Chemische Fabrik Dr. Stöcker GmbH & Co. KG
Gewerbestrasse 19-25
D-55546 Pfaffen-Schwabenheim
+49 (0)6701 911780
- **Further information obtainable from:**
Safety Department
sicherheit@dr-stoecker.de
- **1.4 Emergency telephone number:**
INTERNATIONAL: +49 (0) 6132 / 84463 (GBK Gefahrgut Büro GmbH, Ingelheim)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Flam. Liq. 3 H226 Flammable liquid and vapour.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02

- **Signal word** Warning
- **Hazard statements**
H226 Flammable liquid and vapour.
- **Precautionary statements**
 - P101 If medical advice is needed, have product container or label at hand.
 - P102 Keep out of reach of children.
 - P103 Read carefully and follow all instructions.
 - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - P403+P235 Store in a well-ventilated place. Keep cool.
 - P501 Dispose of contents/container according to the official regulations.
- **Additional information:**
EUH208 Contains 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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· Determination of endocrine-disrupting properties

78-93-3 butanone

List II

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	≥25-<50%
CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28	ethanediol STOT RE 2, H373; Acute Tox. 4, H302	≥2,5-<10%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≥0-≤2,5%
CAS: 2682-20-4 EINECS: 220-239-6	2-methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0,0015 %	≥0-<0,0015%

· Regulation (EC) No 648/2004 on detergents / Labelling for contents

anionic surfactants	<5%
perfumes, preservation agents (BENZISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE / METHYLISOTHIAZOLINONE (3:1))	

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Immediately rinse with water.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** Seek immediate medical advice.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

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- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Dilute with plenty of water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Protect from heat and direct sunlight.
- **Storage class:** 3
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

64-17-5 ethanol

AGW (Germany)	Long-term value: 380 mg/m ³ , 200 ppm 4(I);DFG, Y
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107-21-1 ethanediol

AGW (Germany)	Long-term value: 26 mg/m ³ , 10 ppm 2(I);DFG, EU, H, Y, 11
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78-93-3 butanone

AGW (Germany)	Long-term value: 600 mg/m ³ , 200 ppm 1(I);DFG, EU, H, Y
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2682-20-4 2-methyl-2H-isothiazol-3-one

MAK (Germany)	vgl. Abschn. IIb und Xc
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· DNELs		
64-17-5 ethanol		
Oral	Long term - systemic effects, general population	87 mg/kg bw/day (general population)
Dermal	Long-term - systemic effects, worker	343 mg/kg bw/day (worker)
	Long term - systemic effects, general population	206 mg/kg bw/day (general population)
Inhalative	Acute - local effects, worker	1.900 mg/m3 (worker)
	Long-term - systemic effects, worker	950 mg/m3 (worker)
	Acute - local effects, general population	950 mg/m3 (general population)
	Long term - systemic effects, general population	114 mg/m3 (general population)
107-21-1 ethanediol		
Dermal	Long-term - systemic effects, worker	106 mg/kg bw/day (worker)
	Long term - systemic effects, general population	53 mg/kg bw/day (general population)
Inhalative	Long-term - local effects, worker	35 mg/m3 (worker)
	Long term - local effects, general population	7 mg/m3 (general population)
78-93-3 butanone		
Oral	Long term - systemic effects, general population	31 mg/kg bw/day (general population)
Dermal	Long-term - systemic effects, worker	1.161 mg/kg bw/day (worker)
	Long term - systemic effects, general population	412 mg/kg bw/day (general population)
Inhalative	Long-term - systemic effects, worker	600 mg/m3 (worker)
	Long term - systemic effects, general population	106 mg/m3 (general population)
· PNECs		
64-17-5 ethanol		
Aquatic compartment - freshwater		0,96 mg/l (freshwater)
Aquatic compartment - marine water		0,79 mg/l (marine water)
Aquatic compartment - water, intermittent releases		2,75 mg/l (intermittent release water)
Aquatic compartment - sediment in freshwater		3,6 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water		2,9 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil		0,63 mg/kg dw (soil)
sewage treatment plant		580 mg/l (sewage treatment plant)
107-21-1 ethanediol		
Aquatic compartment - freshwater		10 mg/l (Sweet Water / Süßwasser)
Aquatic compartment - marine water		1 mg/l (marine water)
Aquatic compartment - water, intermittent releases		10 mg/l (intermittent release water)
Aquatic compartment - sediment in freshwater		20,9 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water		1 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil		1,53 mg/kg dw (soil)
sewage treatment plant		199,5 mg/l (sewage treatment plant)
78-93-3 butanone		
Aquatic compartment - freshwater		55,8 mg/l (freshwater)
Aquatic compartment - marine water		55,8 mg/l (marine water)
Aquatic compartment - sediment in freshwater		284,74 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water		284,7 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil		22,5 mg/kg dw (soil)

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sewage treatment plant

709 mg/l (sewage treatment plant)

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.
- **Respiratory protection:** Not required.
- **Hand protection** Not required.
- **Eye/face protection** Goggles recommended during refilling

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** Blue
- **Odour:** Alcohol-like
- **Odour threshold:** No further relevant information available.
- **Melting point/freezing point:** No further relevant information available.
- **Boiling point or initial boiling point and boiling range** No further relevant information available.
- **Flammability** Flammable.
- **Lower and upper explosion limit**
- **Lower:** Not applicable.
- **Upper:** Not applicable.
- **Flash point:** 24 °C
- **Auto-ignition temperature:** No further relevant information available.
- **Decomposition temperature:** No further relevant information available.
- **pH at 20 °C** 9,1 (DIN 19268)
- **Viscosity:**
- **Kinematic viscosity** No further relevant information available.
- **Kinematic viscosity** No further relevant information available.
- **Dynamic:** No further relevant information available.
Not determined.
- **Solubility**
- **water:** Fully miscible.
- **Partition coefficient n-octanol/water (log value)** Does not apply to mixtures.
- **Vapour pressure:** No further relevant information available.
- **Vapour pressure at 50 °C:** 280 hPa
- **Density and/or relative density**
- **Density at 20 °C:** 0,928 g/cm³ (DIN 51757)
- **Relative density** No further relevant information available.
- **Vapour density** No further relevant information available.
- **9.2 Other information**
- **Appearance:**
- **Form:** Fluid
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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- **Molecular formula**
- **Oxidising properties** No further relevant information available.
- **Evaporation rate** No further relevant information available.
- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Flammable liquid and vapour.
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Develops readily flammable gases/fumes.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

64-17-5 ethanol

Oral	LD50	10.470 mg/kg (rat) (OECD 401)
Dermal	LD50	>2.000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	117-125 mg/l (rat) (OECD 403)

107-21-1 ethanediol

Oral	LD50	7.712 mg/kg (rat)
Dermal	LD50	>3.500 mg/kg (mouse)
Inhalative	LC50/6 h	>2,5 mg/l (rat)

78-93-3 butanone

Oral	LD50	2.054 mg/kg (rat) (OECD 423)
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Dermal	LD50	>2.000 mg/kg (rabbit)
Inhalative	LC50/4 h	40 mg/l (mouse) 34,5 mg/l (rat)

2682-20-4 2-methyl-2H-isothiazol-3-one

Oral	LD50	391 mg/kg (rat)
Dermal	LD50	326 mg/kg (rabbit)

· **Specific symptoms in biological assay:****64-17-5 ethanol**

Oral	Subakut NOAEL	1.760 mg/kg (rat) (OECD 408) 90 d
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- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **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.
- **Subacute to chronic toxicity:** No further relevant information available.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

78-93-3	butanone	List II
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SECTION 12: Ecological information· **12.1 Toxicity**· **Aquatic toxicity:****64-17-5 ethanol**

LC50/48 h	8.140 mg/l (<i>Leuciscus idus</i>)
LC50/96 h	1.100 mg/l (<i>Ukelei</i>)
EC50/48 h	9.268-14.221 mg/l (<i>Daphnia magna</i>)
EC50/72 h	275 mg/l (<i>chlorella vulgaris</i>)

107-21-1 ethanediol

NOEC	8.590 mg/l (<i>Ceriodaphnia dubia</i>) 7 d 15.380 mg/l (<i>Pimephlas promelas</i>) 7 d
EC20	>1.995 mg/l (bel) (ISO 8192) 0,5 h
LC50/96 h	72.860 mg/l (<i>Pimephlas promelas</i>)
EC50	10.000 mg/l (<i>Pseudomonas putida</i>)
EC50/48 h	>100 mg/l (<i>Daphnia magna</i>) (OECD 202)
EC50/96 h	6.500-13.000 mg/l (<i>Selenastrum capricornutum</i>)

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78-93-3 butanone

EC0/16 h	1.150 mg/l (<i>Pseudomonas putida</i>) (DIN 38412-8)
LC50	34 mg/l (rat)
LC50/96 h	2.990 mg/l (<i>Pimephlas promelas</i>) (OECD 203)
EC50/48 h	308 mg/l (<i>Daphnia magna</i>) (OECD 202)
EC50/72 h	1.972 mg/l (<i>Pseudokrichneriella subcapitata</i>) (OECD 201)

2682-20-4 2-methyl-2H-isothiazol-3-one

NOEC 21 d	0,04 mg/l (<i>Daphnia magna</i>)
LC50/96 h	4,77 mg/l (<i>Oncorhynchus mykiss</i>)
EC50/48 h	0,93-1,9 mg/l (<i>Daphnia magna</i>)
EC50/3h	34,6 mg/l (bel) (DIN 38412-3)
EC50/72 h	0,158 mg/l (<i>Selenastrum capricornutum</i>)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **European waste catalogue**

20 01 13* | solvents

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN1170
- **14.2 UN proper shipping name**
- **ADR, IMDG** ETHANOL (ETHYL ALCOHOL)
- **IATA** ETHANOL

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· 14.3 Transport hazard class(es)

· ADR



- Class 3 (F1) Flammable liquids.
- Label 3

· IMDG, IATA



- Class 3 Flammable liquids.
- Label 3
- 14.4 Packing group III
- ADR, IMDG, IATA III
- 14.5 Environmental hazards:
- Marine pollutant: No
- 14.6 Special precautions for user Warning: Flammable liquids.
- Hazard identification number (Kemler code): 30
- EMS Number: F-E,S-D
- Stowage Category A
- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.

· Transport/Additional information:

· ADR

- Limited quantities (LQ) 5L
- Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
- Transport category 3
- Tunnel restriction code D/E

· IMDG

- Limited quantities (LQ) 5L
- Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
- UN "Model Regulation": UN 1170 ETHANOL (ETHYL ALCOHOL), 3, III

SECTION 15: Regulatory information

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

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t

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- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

- **Regulation (EC) No 273/2004 on drug precursors**

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- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

78-93-3 butanone

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- **National regulations:**

- **Other regulations, limitations and prohibitive regulations**

822.115, Jugendarbeitsschutzverordnung - ArGV 5 und 822.115.2, Verordnung des WBF über gefährliche Arbeiten für Jugendliche sind zu beachten.

ArGV 1 und 822.111.52, Verordnung des WBF über gefährliche und beschwerliche Arbeiten bei Schwangerschaft und Mutterschaft sind zu beachten.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH071 Corrosive to the respiratory tract.

- **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- **Department issuing SDS:** Department R&D

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· **Contact:** Department R&D

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1A: Skin sensitisation – Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· **Sources**

(EC) No 1907/2006 (REACH) as amended.

(EC) No. 1272/2008 (CLP) in the valid version

Guidance on the compilation of safety data sheets as amended (ECHA)

Guidance on labelling and packaging according to Regulation (EC) No 1272/2008 (CLP) as amended

(ECHA)

Safety data sheets of the ingredients

ECHA homepage - Information on chemicals

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