

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.03.2024

Version number 1


Revision: 28.03.2024

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

- **1.1 Product identifier**
- **Trade name:** PL602
- **Article number:** 6651XX
- **UFI:** 2U95-Y00J-G00N-VRXC
- **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** Hydrophobing agent/ water repellent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Chemische Fabrik Dr. Stöcker GmbH & Co. KG
Gewerbstrasse 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**
Skin Irrit. 2 H315 Causes skin irritation.
Eye Dam. 1 H318 Causes serious eye damage.

 - **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**
- 

GHS05
- **Signal word** *Danger*
 - **Hazard-determining components of labelling:**
1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)
Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me, methoxy-terminated
 - **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
 - **Precautionary statements**

P280	Wear protective gloves / eye protection / face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P332+P313	If skin irritation occurs: Get medical advice/attention.

(Contd. on page 2)

DE-EU

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.03.2024

Version number 1

Revision: 28.03.2024

Trade name: PL602

(Contd. of page 1)

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44	2-(2-butoxyethoxy)ethanol ----- Eye Irrit. 2, H319	10-25%
EC number: 939-685-4 Reg.nr.: 01-2119983493-26	1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts) ----- Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	≥10-<25%
CAS: 14858-73-2 EINECS: 238-925-9 Reg.nr.: 01-2119980070-45	Bis (2-ethylhexyl) carbonate ----- Consisting of: 104-76-7 2-Ethyl-1-hexanol (<1,5%) Skin Irrit. 2, H315	≥2,5-<10%
CAS: 9004-78-8 NLP: 500-013-6	Phenol, ethoxylated ----- Acute Tox. 4, H302	2,5-10%
EC number: 935-147-8	Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me, methoxy-terminated ----- Consisting of: 556-67-2 octamethylcyclotetrasiloxane (<0,1%); 541-02-6 Decamethylcyclopentasiloxane (<0,1%); 540-97-6 Dodecamethylcyclohexasiloxane (<0,1%) Alternative CAS number: 102782-92-3 ----- Skin Corr. 1A, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	≥2,5-<3%

- **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:**
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **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:** Use fire extinguishing methods suitable to surrounding conditions.

(Contd. on page 3)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.03.2024

Version number 1

Revision: 28.03.2024

Trade name: PL602

(Contd. of page 2)

- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.
- **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).
Ensure adequate ventilation.
- **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**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **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:**
Protect from frost.
Protect from heat and direct sunlight.
- **Storage class:** 10
- **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:**

112-34-5 2-(2-butoxyethoxy)ethanol	
AGW (Germany)	Long-term value: 67 mg/m ³ , 10 ppm 1,5(1);EU, DFG, Y, 11

- **DNELs**

112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	Long term - systemic effects, general population	5 mg/kg bw/day (general population)
Dermal	Long-term - systemic effects, worker	83 mg/kg bw/day (worker)
	Long term - systemic effects, general population	50 mg/kg bw/day (general population)
Inhalative	Acute - local effects, worker	101,2 mg/m ³ (worker)

(Contd. on page 4)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.03.2024

Version number 1

Revision: 28.03.2024

Trade name: PL602

(Contd. of page 3)

	Long-term - systemic effects, worker	67,5 mg/m ³ (worker)
	Long-term - local effects, worker	67,5 mg/m ³ (worker)
	Acute - local effects, general population	60,7 mg/m ³ (general population)
	Long term - systemic effects, general population	40,5 mg/m ³ (general population)
	Long term - local effects, general population	40,5 mg/m ³ (general population)

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)

Oral	Long term - systemic effects, general population	1,25 mg/kg bw/day (general population)
Dermal	Long-term - systemic effects, worker	112,5 mg/kg bw/day (worker)
	Long term - systemic effects, general population	56,25 mg/kg bw/day (general population)
Inhalative	Long-term - systemic effects, worker	8,72 mg/m ³ (worker)
	Long term - systemic effects, general population	2,17 mg/m ³ (general population)

14858-73-2 Bis (2-ethylhexyl) carbonate

Oral	Long term - systemic effects, general population	6,88 mg/kg bw/day (general population)
Dermal	Long-term - systemic effects, worker	45.833 mg/kg bw/day (worker)
	Long term - systemic effects, general population	27.500 mg/kg bw/day (general population)
Inhalative	Long-term - systemic effects, worker	80 mg/m ³ (worker)
	Long term - systemic effects, general population	23,87 mg/m ³ (general population)

· PNECs

112-34-5 2-(2-butoxyethoxy)ethanol

	Aquatic compartment - freshwater	1,1 mg/l (freshwater)
	Aquatic compartment - marine water	0,11 mg/l (marine water)
	Aquatic compartment - water, intermittent releases	11 mg/l (intermittent release water)
	Aquatic compartment - sediment in freshwater	4,4 mg/kg sed dw (freshwater)
	Aquatic compartment - sediment in marine water	0,44 mg/kg sed dw (sediment marine water)
	Terrestrial compartment - soil	0,32 mg/kg dw (soil)

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)

	Aquatic compartment - freshwater	0,017 mg/l (freshwater)
	Aquatic compartment - marine water	0,002 mg/l (marine water)
	Aquatic compartment - sediment in freshwater	1,7 mg/kg sed dw (sediment fresh water)
	Aquatic compartment - sediment in marine water	0,17 mg/kg sed dw (sediment marine water)
	Terrestrial compartment - soil	0,331 mg/kg dw (soil)
	sewage treatment plant	10 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:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

(Contd. on page 5)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.03.2024

Version number 1

Revision: 28.03.2024

Trade name: PL602

(Contd. of page 4)

- **Respiratory protection:** Not required.
- **Hand protection** Protective gloves
- **Material of gloves**
Butyl rubber
Recommended material thickness: $\geq 0.3\text{mm}$
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection** Tightly sealed goggles

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** Blue
- **Odour:** Characteristic
- **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** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** 0,7 Vol % (112-34-5 2-(2-butoxyethoxy)ethanol)
- **Upper:** 5,9 Vol % (112-34-5 2-(2-butoxyethoxy)ethanol)
- **Flash point:** $>100\text{ }^{\circ}\text{C}$
- **Auto-ignition temperature:** No further relevant information available.
- **Decomposition temperature:** No further relevant information available.
- **pH at 20 °C** 3,8-4,5 (DIN 19268)
- **Viscosity:**
- **Kinematic viscosity** No further relevant information available.
- **Kinematic viscosity** No further relevant information available.
- **Dynamic:** No further relevant information available.
- **Solubility**
- **water:** Fully miscible.
- **Partition coefficient n-octanol/water (log value)** Does not apply to mixtures.
- **Vapour pressure:** No further relevant information available.
- **Density and/or relative density**
- **Density at 20 °C:** 0,989-0,999 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 does not present an explosion hazard.
- **Molecular formula**
- **Oxidising properties** No further relevant information available.

(Contd. on page 6)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.03.2024

Version number 1

Revision: 28.03.2024

Trade name: PL602

(Contd. of page 5)

- **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** Void
- **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** No dangerous reactions known.
- **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:**

112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LD50	2.410-5.530 mg/kg (mouse) 5.660 mg/kg (rat)
Dermal	LD50	2.764 mg/kg (rat) >2.000 mg/kg (rabbit) (OECD 402)

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)

Oral	LD50	>2.000 mg/kg (rat) (OECD 402)
	NOAEL	>500 mg/kg (rat)
Dermal	LD50	>2.000 mg/kg (rat)

(Contd. on page 7)

DE-EU

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.03.2024

Version number 1

Revision: 28.03.2024

Trade name: PL602

(Contd. of page 6)

14858-73-2 Bis (2-ethylhexyl) carbonate

Oral	LD50	>2.000 mg/kg (rat) (OECD 423)
	ATE	>2.000 mg/kg ()
	NOAEL	275-1.000 mg/kg (rat) (analogy)
Dermal	ATE	>2.000 mg/kg ()
	LD50	>2.000 mg/kg (rat) (OECD 402)

9004-78-8 Phenol, ethoxylated

Oral	LD50	500-2.000 mg/kg (rat) (OECD 423)
Dermal	LD50	2.140 mg/kg (rabbit)

Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me, methoxy-terminated

Oral	LD50	>2.000 mg/kg (rat) (Analogie)
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- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **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.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information· **12.1 Toxicity**· **Aquatic toxicity:****112-34-5 2-(2-butoxyethoxy)ethanol**

NOEC 96 h	>100 mg/l (Desmodesmus subspicatus) (OECD 201)
NOEC 48 h	>100 mg/l () (OECD 202)
EC10/30 min	>1.995 mg/l (bel) (DEV - L2 OECD 209)
LC50/96 h (static)	1.300 mg/l (Lepomis macrochirus) (OECD 203)
EC50	4.950 mg/l (Daphnia magna) 48 h
EC50/24 h	2.850 mg/l (Daphnia magna)
EC50/48 h (static)	>100 mg/l (Daphnia magna) (OECD 202)
EC50/96 h	>100 mg/l (Desmodesmus subspicatus) (OECD 201)
EC50/72 h (static)	>100 mg/l (Desmodesmus subspicatus) (OECD 201)

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)

NOEC 21 d	1 mg/l (Daphnia magna) (analogy)
NOEC 72 h	0,39 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC 35 d	0,686 mg/l (Pimephlas promelas) (analogy)

(Contd. on page 8)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.03.2024

Version number 1

Revision: 28.03.2024

Trade name: PL602

(Contd. of page 7)

LC50/96 h	>10 mg/l (<i>Cyprinus carpio</i>)
EC50	100 mg/l (bel) 6 d
EC50/48 h	>8,6 mg/l (<i>Daphnia magna</i>)
EC50/72 h	1,2 mg/l (<i>Pseudokirchneriella subcapitata</i>) (OECD 201)
14858-73-2 Bis (2-ethylhexyl) carbonate	
NOEC 28 d	>100 mg/l (bel) (OECD 301F)
NOEC 72 h	>0,0214 mg/l (<i>Desmodesmus subspicatus</i>)
LC50/96 h	>0,0234 mg/l (<i>Danio rerio</i>)
EC50/48 h	>0,0197 mg/l (<i>Daphnia magna</i>)
EC50/72 h	>0,0214 mg/l (<i>Desmodesmus subspicatus</i>)
9004-78-8 Phenol, ethoxylated	
LC50/96 h	>100 mg/l (bra) (OECD 203)
EC50/48 h	>128 mg/l (<i>Daphnia magna</i>) (OECD 202)
Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me, methoxy-terminated	
LC50/96 h	>0,022 mg/l (<i>Oncorhynchus mykiss</i>)
EC50/48 h	0,015 mg/l (<i>Daphnia magna</i>)
EC50/96 h	>0,022 mg/l (<i>Pseudokirchneriella subcapitata</i>)
12.2 Persistence and degradability	
1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)	
OECD 301 F	>60 % () 28 d
14858-73-2 Bis (2-ethylhexyl) carbonate	
OECD 301 F	>67 % ()
9004-78-8 Phenol, ethoxylated	
OECD 301 F	79 % ()

· **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**

The product does not contain substances with endocrine disrupting properties.

· **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**

Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 9)

DE-EU

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.03.2024

Version number 1

Revision: 28.03.2024

Trade name: PL602

(Contd. of page 8)

- **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** Void
- **14.2 UN proper shipping name**
· **ADR, IMDG, IATA** Void
- **14.3 Transport hazard class(es)**
· **ADR, ADN, IMDG, IATA**
· **Class** Void
- **14.4 Packing group**
· **ADR, IMDG, IATA** Void
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **UN "Model Regulation":** Void

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.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 55

· **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**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **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 I und 822.111.52, Verordnung des WBF über gefährliche und beschwerliche Arbeiten bei Schwangerschaft und Mutterschaft sind zu beachten.

(Contd. on page 10)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.03.2024

Version number 1

Revision: 28.03.2024

Trade name: PL602

(Contd. of page 9)

· **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**

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.

H412 Harmful to aquatic life with long lasting effects.

· **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· **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

Acute Tox. 4: Acute toxicity – Category 4

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

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

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

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **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