

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

ph-cleantec

Trade name : B 1200 (00013210)
cleaning concentrate

Revision date : 23.04.2020

Version (Revision) : 21.0.0 (20.0.0)

Print date : 24.04.2020

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

1.1 Product identifier

B 1200
cleaning concentrate

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

Relevant identified uses

Products Category [PC]

PC 35 - Washing and cleaning products

1.3 Details of the supplier of the safety data sheet

Supplier : ph-cleantec GmbH

Street : Gutenbergstr. 14

Postal code/city : 70736 Fellbach

Telephone : 0711 518 0600

Telefax : 0711 518 0994

Information contact : Info@ph-cleantec.de

1.4 Emergency telephone number

0711 518 0600 - (08:00- 16.00 Uhr)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms



Corrosion (GHS05)

Signal word

Danger

Hazard components for labelling

POLY(OXY-1,2-ETHANDIYL).ALPHA.-TRIDECYL-.OMEGA.-HDROXY-, BRANCHED ; EC No. : 931-138-8

2-AMINOETHANOL ; INDEX No. : 603-030-00-8

Hazard statements

H318 Causes serious eye damage.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

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and easy to do. Continue rinsing.

P501 Dispose of contents/container according to local regulations

Special rules for supplemental label elements for certain mixtures

EUH208 Contains ORANGE, SWEET, EXTRACT. May produce an allergic reaction.

Additional information

P302+P352 - IF ON SKIN: Wash with plenty of water. P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

AQUEOUS MILD ALCALINE SOLUTION, SURFACTANTS, ADDITIVES, LOW-SALT

3.2 Mixtures

Hazardous ingredients

2-(2-BUTOXYETHOXY)ETHANOL ; REACH No. : 01-2119475104-44 ; EC No. : 203-961-6; CAS No. : 112-34-5

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

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

POLY(OXY-1,2-ETHANDIYL).ALPHA.-TRIDECYL.-OMEGA.-HDROXY-, BRANCHED ; EC No. : 931-138-8; CAS No. : 69011-36-5

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

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

ALCOHOLS, C 12-14 (EVEN NUMBERED), ETHOXYLATED, PROPOXYLATED (> 2,5 MOLES EO/PO) ; REACH No. : Polymer ; EC No. : 931-986-9; CAS No. : 68439-51-0

Weight fraction : $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Aquatic Chronic 3 ; H412

2-AMINOETHANOL ; REACH No. : 01-2119486455-28 ; EC No. : 205-483-3; CAS No. : 141-43-5

Weight fraction : $\geq 1 - < 3 \%$

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 STOT SE 3 ; H335 Aquatic Chronic 3 ; H412

ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; REACH No. : 01-2119488639-16 ; EC No. : 500-234-8; CAS No. : 68891-38-3

Weight fraction : $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 Aquatic Chronic 3 ; H412

ORANGE, SWEET, EXTRACT ; REACH No. : 01-2119493353-35 ; EC No. : 232-433-8; CAS No. : 8028-48-6

Weight fraction : $\geq 0,5 - < 1 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411

MERCAPTOBENZOTHAZOLE SODIUM SALT ; REACH No. : 01-2119493018-35 ; EC No. : 219-660-8; CAS No. : 2492-26-4

Weight fraction : $\geq 0,25 - < 0,5 \%$

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH

None

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH

None

Additional information

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

SECTION 4: First aid measures

4.1 Description of first aid measures

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General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove affected person from the danger area and lay down. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Change contaminated, saturated clothing. Subsequently wash off with: Water and soap

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunk in little sips (dilution effect).

4.2 Most important symptoms and effects, both acute and delayed

Dizziness Headache Impairment of vision Nausea Vomiting

4.3 Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

Co-ordinate fire-fighting measures to the fire surroundings.

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO₂) Extinguishing powder Water spray jet

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

5.4 Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. 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. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Use water spray jet to minimise or disperse vapours.

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13 National regulations see section 15.

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SECTION 7: Handling and storage



7.1 Precautions for safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists

Measures to prevent fire

Usual measures for fire prevention. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Measures to prevent aerosol and dust generation

Vapours/aerosols should be exhausted directly at the point of origin. Use only in well-ventilated areas.

Environmental precautions

Shafts and sewers must be protected from entry of the product.

7.2 Conditions for safe storage, including any incompatibilities

Hints on joint storage

Storage class (TRGS 510) : 12

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 10 ppm / 67 mg/m³

Peak limitation : 1,5(I)

Remark : Y

Version : 29.03.2019

Limit value type (country of origin) : STEL (EC)

Limit value : 15 ppm / 101,2 mg/m³

Version : 20.06.2019

Limit value type (country of origin) : TWA (EC)

Limit value : 10 ppm / 67,5 mg/m³

Version : 20.06.2019

2-AMINOETHANOL ; CAS No. : 141-43-5

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 0,2 ppm / 0,5 mg/m³

Peak limitation : 1(I)

Remark : H, Sh, Y

Version : 29.03.2019

Limit value type (country of origin) : STEL (EC)

Limit value : 3 ppm / 7,6 mg/m³

Remark : H

Version : 31.01.2018

Limit value type (country of origin) : TWA (EC)

Limit value : 1 ppm / 2,5 mg/m³

Remark : H

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Version : 31.01.2018
2,2',2''-NITRILOTRIETHANOL ; CAS No. : 102-71-6
Limit value type (country of origin) : TRGS 900 (D)
Parameter : E: inhalable fraction
Limit value : 1 mg/m³
Peak limitation : 1(I)
Remark : Y
Version : 29.03.2019

DNEL-/PNEC-values

DNEL/DMEL

Limit value type : DNEL Consumer (local) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 60,7 mg/m³
Limit value type : DNEL Consumer (local and systemic) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 40,5 mg/m³
Limit value type : DNEL Consumer (systemic) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 50 mg/kg
Limit value type : DNEL Consumer (systemic) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 5 mg/kg
Limit value type : DNEL worker (local) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 101,2 mg/m³
Limit value type : DNEL worker (local and systemic) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 67,5 mg/m³
Limit value type : DNEL worker (systemic) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 83 mg/kg
Limit value type : DNEL Consumer (local) (2-AMINOETHANOL ; CAS No. : 141-43-5)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 3,75 mg/kg
Limit value type : DNEL Consumer (local) (2-AMINOETHANOL ; CAS No. : 141-43-5)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 2 mg/m³
Limit value type : DNEL Consumer (systemic) (2-AMINOETHANOL ; CAS No. : 141-43-5)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 0,24 mg/kg
Limit value type : DNEL worker (systemic) (2-AMINOETHANOL ; CAS No. : 141-43-5)
Exposure route : Dermal
Exposure frequency : Long-term

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Limit value :	1 mg/kg
Limit value type :	DNEL worker (systemic) (2-AMINOETHANOL ; CAS No. : 141-43-5)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	3,3 mg/m ³
Limit value type :	DNEL Consumer (systemic) (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	1650 mg/kg
Limit value type :	DNEL Consumer (systemic) (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	52 mg/m ³
Limit value type :	DNEL Consumer (systemic) (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	15 mg/kg
Limit value type :	DNEL worker (systemic) (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	2750 mg/kg
Limit value type :	DNEL worker (systemic) (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	175 mg/m ³
Limit value type :	DNEL Consumer (local) (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Exposure route :	Dermal
Exposure frequency :	Short-term
Limit value :	92,9 µg/cm ²
Limit value type :	DNEL Consumer (systemic) (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	4,44 mg/kg
Limit value type :	DNEL Consumer (systemic) (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	4,44 mg/kg
Limit value type :	DNEL Consumer (systemic) (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	7,78 mg/m ³
Limit value type :	DNEL worker (local) (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Exposure route :	Dermal
Exposure frequency :	Short-term
Limit value :	185,8 µg/cm ²
Limit value type :	DNEL worker (systemic) (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	8,89 mg/kg
Limit value type :	DNEL worker (systemic) (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Exposure route :	Inhalation

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Exposure frequency :	Long-term
Limit value :	31,1 mg/m ³
PNEC	
Limit value type :	PNEC (Aquatic, freshwater) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value :	1,1 mg/l
Limit value type :	PNEC (Aquatic, intermittent release) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value :	11 mg/l
Limit value type :	PNEC (Aquatic, marine water) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value :	0,11 mg/l
Limit value type :	PNEC (Sediment, freshwater) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value :	4,4 mg/kg
Limit value type :	PNEC (Sediment, marine water) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value :	0,44 mg/kg
Limit value type :	PNEC (Soil) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value :	0,32 mg/kg
Limit value type :	PNEC (Secondary poisoning) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value :	56 mg/kg
Limit value type :	PNEC (Sewage treatment plant) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value :	200 mg/l
Limit value type :	PNEC (Aquatic, freshwater) (2-AMINOETHANOL ; CAS No. : 141-43-5)
Limit value :	0,085 mg/l
Limit value type :	PNEC (Aquatic, intermittent release) (2-AMINOETHANOL ; CAS No. : 141-43-5)
Limit value :	0,028 mg/l
Limit value type :	PNEC (Aquatic, marine water) (2-AMINOETHANOL ; CAS No. : 141-43-5)
Limit value :	0,0085 mg/l
Limit value type :	PNEC (Sediment, freshwater) (2-AMINOETHANOL ; CAS No. : 141-43-5)
Limit value :	0,434 mg/kg
Limit value type :	PNEC (Sediment, marine water) (2-AMINOETHANOL ; CAS No. : 141-43-5)
Limit value :	0,0434 mg/kg
Limit value type :	PNEC (Soil) (2-AMINOETHANOL ; CAS No. : 141-43-5)
Limit value :	0,0367 mg/kg
Limit value type :	PNEC (Sewage treatment plant) (2-AMINOETHANOL ; CAS No. : 141-43-5)
Limit value :	100 mg/l
Limit value type :	PNEC (Aquatic, freshwater) (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Limit value :	0,24 mg/l
Limit value type :	PNEC (Aquatic, intermittent release) (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Limit value :	0,071 mg/l
Limit value type :	PNEC (Aquatic, marine water) (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Limit value :	0,024 mg/l
Limit value type :	PNEC (Sediment, freshwater) (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Limit value :	0,9168 mg/kg
Limit value type :	PNEC (Sediment, marine water) (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Limit value :	0,09168 mg/kg
Limit value type :	PNEC (Soil) (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Limit value :	7,5 mg/kg

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Limit value type :	PNEC (Sewage treatment plant) (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Limit value :	10000 mg/l
Limit value type :	PNEC (Aquatic, freshwater) (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Limit value :	5,4 µg/l
Limit value type :	PNEC (Aquatic, intermittent release) (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Limit value :	5,77 µg/l
Limit value type :	PNEC (Aquatic, marine water) (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Limit value :	0,54 µg/l
Limit value type :	PNEC (Sediment, freshwater) (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Limit value :	1,3 mg/kg
Limit value type :	PNEC (Sediment, marine water) (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Limit value :	0,13 mg/kg
Limit value type :	PNEC (Soil) (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Limit value :	0,261 mg/kg
Limit value type :	PNEC (Sewage treatment plant) (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Limit value :	2,1 mg/l

8.2 Exposure controls



Personal protection equipment

Eye/face protection

Eye glasses with side protection

Skin protection

Hand protection

Suitable gloves type : Gloves with long cuffs

Suitable material : Butyl caoutchouc (butyl rubber)

Breakthrough time : >= 480 min

Thickness of the glove material : 0,5 mm

Recommended glove articles : EN ISO 374

Additional hand protection measures : Check leak tightness/impermeability prior to use. Do not wear gloves near rotary machines and tools. In the case of wanting to use the gloves again, clean them before taking off and air them well.

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.

Body protection

lab coat Overall Chemical resistant safety shoes Only wear fitting, comfortable and clean protective clothing.

Recommended material : Natural fibres (e.g. cotton) heat-resistant synthetic fibres

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: exceeding exposure limit values / aerosol or mist formation.

Suitable respiratory protection apparatus

Filtering device (full mask or mouthpiece) with filter : A-P2

General information

Wash hands before breaks and after work. Apply skin care products after work.

SECTION 9: Physical and chemical properties

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9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : light yellow

Odour : characteristic

Safety characteristics

Melting point/freezing point :			not determined
Initial boiling point and boiling range :	(1013 hPa)	>	100,0 °C
Decomposition temperature :			No data available
Flash point :			none DIN 51755 part 1
Auto-ignition temperature :			none
Oxidising liquids :			Not applicable.
Lower explosion limit :			none
Upper explosion limit :			none
Explosive properties :			Not applicable.
Vapour pressure 20°C):	(20 °C)		No data available
Density :	(20 °C)	approx.	1,050 g/cm ³
Water solubility :	(20 °C)		miscible
pH-value:	(20 °C / conc.)		10,3 - 10,9
pH-value:	(20 °C / 10 g/l)		9,2 - 9,8
log P O/W :			No data available
Cinematic viscosity :	(40 °C)		No data available
Odour threshold :			No data available
Vapourisation rate :			No data available (Ether = 1)
Maximum VOC content (EC) :	(20 °C)		2,9 Wt % gem. RL 2010/75/EG

9.2 Other information

no more data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

None

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

Acute oral toxicity

Parameter : LD50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)

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Exposure route : Oral
Species : Mouse
Effective dose : 2410 mg/kg
Parameter : LD50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route : Oral
Species : Rat
Effective dose : 3384 mg/kg
Parameter : LD50 (POLY(OXY-1,2-ETHANDIYL).ALPHA.-TRIDECYL-.OMEGA.-HDROXY-, BRANCHED ; CAS No. : 69011-36-5)
Exposure route : Oral
Species : Rat
Effective dose : > 200 - 2000 mg/kg
Method : OECD 423
Parameter : LD50 (ALCOHOLS, C 12-14 (EVEN NUMBERED), ETHOXYLATED, PROPOXYLATED (> 2,5 MOLES EO/PO) ; CAS No. : 68439-51-0)
Exposure route : Oral
Species : Rat
Effective dose : > 2000 mg/kg
Parameter : LD50 (2-AMINOETHANOL ; CAS No. : 141-43-5)
Exposure route : Oral
Species : Rat
Effective dose : 1515 - 1720 mg/kg
Parameter : LD50 (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Exposure route : Oral
Species : Rat
Effective dose : 2870 - 4100 mg/kg
Parameter : LD50 (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Exposure route : Oral
Species : Rat
Effective dose : 5700 mg/kg

Acute dermal toxicity
Parameter : LD50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route : Dermal
Species : Rabbit
Effective dose : 2764 mg/kg
Parameter : LD50 (POLY(OXY-1,2-ETHANDIYL).ALPHA.-TRIDECYL-.OMEGA.-HDROXY-, BRANCHED ; CAS No. : 69011-36-5)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg
Method : OECD 402
Parameter : LD50 (2-AMINOETHANOL ; CAS No. : 141-43-5)
Exposure route : Dermal
Species : Rabbit
Effective dose : 1025 mg/kg
Parameter : LD50 (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg
Parameter : LC50 (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 5000 mg/kg

Acute inhalation toxicity

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Parameter : LC50 (2-AMINOETHANOL ; CAS No. : 141-43-5)
Exposure route : Inhalation
Species : Rat
Effective dose : > 1,3 mg/l
Exposure time : 6 h

Corrosion

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

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

Germ cell mutagenicity

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 Toxicokinetics, metabolism and distribution

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

11.3 Symptoms related to the physical, chemical and toxicological characteristics

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

11.4 Other adverse effects

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Harmful to aquatic life with long lasting effects.

Acute (short-term) fish toxicity

Parameter : LC50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species : Lepomis macrochirus (Bluegill)
Effective dose : 1300 mg/l
Exposure time : 96 h
Method : OECD 203

Parameter : LC50 (POLY(OXY-1,2-ETHANDIYL).ALPHA.-TRIDECYL-.OMEGA.-HDROXY-,
BRANCHED ; CAS No. : 69011-36-5)

Species : Cyprinus carpio (Common Carp)
Effective dose : > 1 mg/l
Exposure time : 96 h
Method : OECD 203

Parameter : LC50 (ALCOHOLS, C 12-14 (EVEN NUMBERED), ETHOXYLATED, PROPOXYLATED (>
2,5 MOLES EO/PO) ; CAS No. : 68439-51-0)

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Species : Poecilia reticulata (Guppy)
Effective dose : > 1 - 10
Exposure time : 96 h
Method : OECD 203
Parameter : LC50 (2-AMINOETHANOL ; CAS No. : 141-43-5)
Species : Cyprinus carpio (Common Carp)
Effective dose : > 100 mg/l
Exposure time : 96 h
Method : OECD 203
Parameter : LC50 (2-AMINOETHANOL ; CAS No. : 141-43-5)
Species : Carassius auratus (goldfish)
Effective dose : 170 mg/l
Exposure time : 96 h
Parameter : LC50 (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Species : Brachydanio rerio (zebra-fish)
Effective dose : 7,1 mg/l
Exposure time : 96 h
Method : ISO 7346
Parameter : LC50 (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Species : Pimephales promelas (fathead minnow)
Effective dose : 0,7 mg/l
Exposure time : 96 h
Method : OECD 203

Chronic (long-term) fish toxicity

Parameter : NOEC (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Effective dose : 1 mg/l
Exposure time : 45 D
Method : OECD 210

Acute (short-term) toxicity to crustacea

Parameter : EC50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species : Daphnia magna (Big water flea)
Effective dose : > 100 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 (POLY(OXY-1,2-ETHANDIYL).ALPHA.-TRIDECYL-.OMEGA.-HDROXY-, BRANCHED ; CAS No. : 69011-36-5)
Species : Daphnia magna (Big water flea)
Effective dose : > 1 - 10 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 (ALCOHOLS, C 12-14 (EVEN NUMBERED), ETHOXYLATED, PROPOXYLATED (> 2,5 MOLES EO/PO) ; CAS No. : 68439-51-0)
Species : Daphnia magna (Big water flea)
Effective dose : > 1 - 10 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 (2-AMINOETHANOL ; CAS No. : 141-43-5)
Species : Daphnia magna (Big water flea)
Effective dose : 65 mg/l
Exposure time : 48 h
Method : Richtlinie 67/548/EWG, Anhang V, C.2.
Parameter : EC50 (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Species : Daphnia magna (Big water flea)

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Effective dose : 7,2 - 7,4 mg/l
Exposure time : 48 h
Parameter : EC50 (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Species : Daphnia magna (Big water flea)
Effective dose : 0,67 mg/l
Exposure time : 48 h
Method : OECD 202

Chronic (long-term) toxicity to crustacea

Parameter : EC10 (POLY(OXY-1,2-ETHANDIYL).ALPHA.-TRIDECYL-.OMEGA.-HDROXY-, BRANCHED ; CAS No. : 69011-36-5)
Species : Daphnia magna (Big water flea)
Effective dose : 2,6 mg/l
Exposure time : 21 D
Method : OECD 211
Parameter : NOEC (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Effective dose : 0,27 mg/l
Exposure time : 21 D
Method : OECD 211

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

Parameter : EC50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species : Scenedesmus subspicatus
Effective dose : > 100 mg/l
Exposure time : 96 h
Method : OECD 201
Parameter : EC50 (POLY(OXY-1,2-ETHANDIYL).ALPHA.-TRIDECYL-.OMEGA.-HDROXY-, BRANCHED ; CAS No. : 69011-36-5)
Species : Desmodesmus subspicatus
Effective dose : > 1 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : EC50 (ALCOHOLS, C 12-14 (EVEN NUMBERED), ETHOXYLATED, PROPOXYLATED (> 2,5 MOLES EO/PO) ; CAS No. : 68439-51-0)
Species : Desmodesmus subspicatus
Effective dose : > 1 - 10 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : EC10 (ALCOHOLS, C 12-14 (EVEN NUMBERED), ETHOXYLATED, PROPOXYLATED (> 2,5 MOLES EO/PO) ; CAS No. : 68439-51-0)
Species : Desmodesmus subspicatus
Effective dose : > 0,1 - 1 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : EC50 (2-AMINOETHANOL ; CAS No. : 141-43-5)
Species : Scenedesmus subspicatus
Evaluation parameter : Inhibition of growth rate
Effective dose : 22 mg/l
Exposure time : 72 h
Parameter : EC50 (2-AMINOETHANOL ; CAS No. : 141-43-5)
Species : Selenastrum capricornutum
Evaluation parameter : Inhibition of growth rate
Effective dose : 2,5 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : EC50 (2-AMINOETHANOL ; CAS No. : 141-43-5)
Species : Desmodesmus subspicatus

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Effective dose : 15 mg/l
Exposure time : 72 h
Parameter : EC50 (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)

Effective dose : 7,5 mg/l
Exposure time : 96 h
Parameter : ErC50 (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)

Effective dose : 27 - 27,7 mg/l
Exposure time : 72 h
Parameter : NOEC (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)

Effective dose : 0,93 - 0,95 mg/l
Exposure time : 3 D
Parameter : ErC50 (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Species : Desmodemus subspicatus
Effective dose : 150 mg/l
Exposure time : 72 h
Method : OECD 201

Chronic (long-term) algae toxicity

Parameter : NOEC (2-AMINOETHANOL ; CAS No. : 141-43-5)
Species : Scenedesmus quadricauda
Effective dose : 0,97 mg/l
Exposure time : 8 D

Toxicity to microorganisms

Parameter : EC10 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species : Belebtschlamm
Effective dose : > 1995 mg/l
Exposure time : 30 min
Method : OECD 209

Parameter : EC50 (POLY(OXY-1,2-ETHANDIYL).ALPHA.-TRIDECYL-.OMEGA.-HDROXY-, BRANCHED ; CAS No. : 69011-36-5)
Species : Belebtschlamm
Effective dose : 140 mg/l

Parameter : EC10 (POLY(OXY-1,2-ETHANDIYL).ALPHA.-TRIDECYL-.OMEGA.-HDROXY-, BRANCHED ; CAS No. : 69011-36-5)
Species : Belebtschlamm
Effective dose : > 10000 mg/l
Exposure time : 17 h
Method : DIN 38412 / part 8

Parameter : EC10 (ALCOHOLS, C 12-14 (EVEN NUMBERED), ETHOXYLATED, PROPOXYLATED (> 2,5 MOLES EO/PO) ; CAS No. : 68439-51-0)
Species : Pseudomonas putida
Effective dose : > 10000 mg/l
Exposure time : 17 h
Method : DIN 38412 / part 8

Parameter : EC50 (2-AMINOETHANOL ; CAS No. : 141-43-5)
Species : Pseudomonas putida
Effective dose : 110 mg/l
Exposure time : 16 h
Method : DIN 38412 / part 8

Parameter : EC50 (2-AMINOETHANOL ; CAS No. : 141-43-5)
Species : Belebtschlamm
Effective dose : > 1000 mg/l
Exposure time : 3 h

Parameter : EL10 (2-AMINOETHANOL ; CAS No. : 141-43-5)

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Species : Belebtschlamm
Effective dose : > 1000 mg/l
Exposure time : 0,5 h
Method : OECD 209
Parameter : Bacteria toxicity (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Species : Pseudomonas putida
Effective dose : > 100 mg/l
Method : OECD 209

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Degradation rate : 89 - 93 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301C
Parameter : Biodegradation (POLY(OXY-1,2-ETHANDIYL).ALPHA.-TRIDECYL-.OMEGA.-HDROXY-, BRANCHED ; CAS No. : 69011-36-5)
Evaluation parameter : Aerobic
Degradation rate : > 60 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301B
Parameter : Biodegradation (POLY(OXY-1,2-ETHANDIYL).ALPHA.-TRIDECYL-.OMEGA.-HDROXY-, BRANCHED ; CAS No. : 69011-36-5)
Evaluation parameter : Anaerobic
Degradation rate : > 60 %
Test duration : 60 D
Evaluation : Biodegradable.
Method : OECD 311
Parameter : CO2 formation (% of the theoretical value) (POLY(OXY-1,2-ETHANDIYL).ALPHA.-TRIDECYL-.OMEGA.-HDROXY-, BRANCHED ; CAS No. : 69011-36-5)
Degradation rate : > 60 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301B
Parameter : Biodegradation (ALCOHOLS, C 12-14 (EVEN NUMBERED), ETHOXYLATED, PROPOXYLATED (> 2,5 MOLES EO/PO) ; CAS No. : 68439-51-0)
Evaluation parameter : Aerobic
Degradation rate : > 60 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301B
Parameter : Biodegradation (2-AMINOETHANOL ; CAS No. : 141-43-5)
Inoculum : Degree of elimination
Degradation rate : 99 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301E
Parameter : Biodegradation (2-AMINOETHANOL ; CAS No. : 141-43-5)
Inoculum : Degree of elimination
Degradation rate : 96 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301B

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Parameter : DOC reduction (2-AMINOETHANOL ; CAS No. : 141-43-5)
Inoculum : Degree of elimination
Degradation rate : > 90 %
Test duration : 21 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301A
Parameter : Biodegradation (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Degradation rate : > 95 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301E
Parameter : Biodegradation (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Inoculum : Degree of elimination
Degradation rate : > 72 - 83,4 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301B

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) (2-AMINOETHANOL ; CAS No. : 141-43-5)
Value : 2,3 - 9,2
Parameter : Bioconcentration factor (BCF) (ORANGE, SWEET, EXTRACT ; CAS No. : 8028-48-6)
Value : 32 - 156
Parameter : Log KOW (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Value : 1
Method : OECD 117
Parameter : Log KOW (2-AMINOETHANOL ; CAS No. : 141-43-5)
Value : -2,3
Parameter : Log KOW (ALCOHOLS, C12-C14, ETHOXYLATED, SULFATED, SODIUM SALT ; CAS No. : 68891-38-3)
Value : 0,3

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 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

Dispose according to legislation.

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste codes/waste designations according to EWC/AVV

Waste code (EWC/AVV) : 07 06 01* (aqueous washing liquids and mother liquors)

13.2 Additional information

None

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SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant

14.8 Additional information

Land transport (ADR/RID)

No dangerous good in sense of these transport regulations.

Sea transport (IMDG)

No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU legislation

according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 830/2015)

Authorisations and/or restrictions on use

Restrictions on use

Use restriction according to REACH annex XVII, no. : 3, 55

National regulations

Technische Anleitung Luft (TA-Luft)

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

Water hazard class (WGK)

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

Percentage of carcinogenic substances WGK 2 : < 0,1 %

Percentage of carcinogenic substances WGK 3 : < 0,1 %

Percentage of carcinogenic substances : < 0,1 %

Percentage of substances WGK 3 : 0,5 %

Percentage of substances WGK 3 with M-Factor : 0 %

Percentage of substances WGK 2 : 4,25 %

Percentage of substances WGK 2 with M-Factor : 0 %

Percentage of substances WGK 1 : 20,78 %

Percentage of floating liquids : 0 %

Percentage of substances non-hazardous to water (nwg) : 72,46 %

Percentage of substances unidentified : 0 %

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15.2 Chemical safety assessment

No information available.

15.3 Additional information

None

SECTION 16: Other information

16.1 Indication of changes

02. Label elements - Additional information · 03. Hazardous ingredients · 08. Occupational exposure limit values · 15. Restrictions on use · 15. Water hazard class (WGK)

16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
ADR: European agreement concerning the international carriage of dangerous goods by road
(Accord européen relatif transport des marchandises dangereuses par route)
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany)
BCF: Bio-Concentration Factor
BOD(5): Biochemical oxygen demand (within 5 days)
CAS: Chemical Abstract Service
CLP: Classification, Labelling and Packaging
CMR: Carcinogenic, Mutagenic, toxic for Reproduction
DIN: German Standards Institute / German industrial norm
DNEL: Derived No Effect Level
DOC: Dissolved organic carbon
EAK/ AVV: European waste catalogue/ waste directory-regulation
EC50: Effective Concentration 50%
ECHA: European Chemical Agency
EINECS: European Inventory of Existing Commercial Chemical Substances
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
IATA: International Air Transport Association
IC50: Inhibition Concentration 50%
IMDG: International Maritime Dangerous Goods Code
LC50: Lethal Concentration 50% - LD50: Lethal dose 50%
MAK: Treshold limit values Germany
NLP: No Longer Polymers
NOAEC: No Observed Adverse Effect Concentration
NOAEL: No Observed Adverse Effect Level
OECD: Organization for Economic Cooperation and Development
PBT: persistent, bioaccumulative, toxic
PC: Product category
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation and Authorization of Chemicals
RID: Regulations concerning the international carriage of dangerous goods by rail
(Règlement International concernant le transport de marchandises dangereuses par chemin de fer)
STEL: Short-term Exposure Limit
STP: Sewage treatment plant
SVHC: Substance of Very High Concern
TLV: Threshold Limit Value
TWA: Time Weighted Average
UN: United Nations
VOC: Volatile Organic Compounds
vPvB: very persistent, very bioaccumulative

16.3 Key literature references and sources for data

None

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

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See SECTION 2.1 (classification).

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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

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