

Safety Data Sheet

according to Regulation (EC) No 1907/2006

SEPTICARE II Bond Express XL Component A

Revision date: 27/09/2024

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

SEPTICARE II Bond Express XL Component A

Product code:

106652001

UFI:

7RPD-DE3U-V00R-JVQA

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**Adhesives, sealants (Curing agent)
Restricted to professional users.**1.3. Details of the supplier of the safety data sheet**

Company name: UKAL Élevage
Street: 2 rue de l'Etang Parc économique de la Sauer
Place: F-67360 ESCHBACH
Telephone: +33 3 88 07 40 15 Telefax: +33 3 88 07 40 14
E-mail (Contact person): ukalel@ukal.com
Internet: www.ukal.com

1.4. Emergency telephone number:

+49 55 11 92 40 GIZ Nord Göttingen (24 / 7)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**Skin Irrit. 2; H315
Eye Irrit. 2; H319
Skin Sens. 1; H317
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine
1,3-Benzoldimethanamine
trimethoxyvinylsilane; trimethoxy(vinyl)silane**Signal word:** Warning**Pictograms:****Hazard statements**

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P280 Wear protective gloves and eye protection/face protection.

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Precautionary statements

- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P501 Dispose of waste according to applicable legislation.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
102-60-3	1,1',1'',1'''-ethylenedinitrotetrapropan-2-ol			20 - < 25 %
	203-041-4		01-2119552434-41	
	Eye Irrit. 2; H319			
106264-79-3	6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine			10 - < 15 %
	403-240-8	612-113-00-8	01-0000015292-76	
	Acute Tox. 4, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H317 H400 H410			
1477-55-0	1,3-Benzoldimethanamine			1 - < 5 %
	216-032-5		01-2119480150-50	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1B, Aquatic Chronic 3; H332 H302 H314 H317 H412			
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane			1 - < 5 %
	220-449-8	014-049-00-0	01-2119513215-52	
	Flam. Liq. 3, Acute Tox. 4, Skin Sens. 1B; H226 H332 H317			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
106264-79-3	403-240-8	6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine	10 - < 15 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1515 mg/kg		
1477-55-0	216-032-5	1,3-Benzoldimethanamine	1 - < 5 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: LC50 = 1,34 mg/l (dusts or mists); dermal: LD50 = > 3100 mg/kg; oral: LD50 = 930 mg/kg		
2768-02-7	220-449-8	trimethoxyvinylsilane; trimethoxy(vinyl)silane	1 - < 5 %
	inhalation: LC50 = 16,8 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 3158 mg/kg; oral: LD50 = 6899 mg/kg		

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

After contact with skin

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After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water. When in doubt or if symptoms are observed, get medical advice.

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

No information available.

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**

Carbon dioxide (CO₂), Water spray jet. In case of major fire and large quantities: Water spray jet, alcohol resistant foam.

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

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

In case of fire may be liberated: Pyrolysis products, toxic.

5.3. Advice for firefighters

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

Additional information

Suppress gases/vapours/mists with water spray jet. 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****General advice**

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Evacuate area.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment.

For emergency responders

Wear personal protection equipment (refer to section 8).

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**

Stop leak if safe to do so.

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

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

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Store in a well-ventilated place. Store in a dry place.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Adhesives, sealants (Curing agent)
 Restricted to professional users.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits**

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
1477-55-0	m-Xylene alpha,alpha'-diamine (m-phenylenebis(methylamine))	-	0.1		TWA (8 h)	

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
106264-79-3	6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine			
Worker DNEL, long-term		inhalation	systemic	3,4 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,39 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,94 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,24 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,24 mg/kg bw/day
1477-55-0	1,3-Benzoldimethanamine			
Worker DNEL, long-term		inhalation	systemic	1,2 mg/m ³
Worker DNEL, long-term		inhalation	local	0,2 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,33 mg/kg bw/day
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane			
Worker DNEL, long-term		inhalation	systemic	27,6 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,91 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	6,8 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,63 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,63 mg/kg bw/day

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PNEC values

CAS No	Substance	Value
106264-79-3	6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine	
	Freshwater	0,0087 mg/l
	Freshwater (intermittent releases)	0,87 mg/l
	Freshwater sediment	0,2 mg/kg
	Marine sediment	0,02 mg/kg
	Secondary poisoning	3,2 mg/kg
	Micro-organisms in sewage treatment plants (STP)	0,011 mg/l
	Soil	0,21 mg/kg
1477-55-0	1,3-Benzoldimethanamine	
	Freshwater	0,094 mg/l
	Freshwater (intermittent releases)	0,152 mg/l
	Marine water	0,009 mg/l
	Freshwater sediment	0,43 mg/kg
	Marine sediment	0,043 mg/kg
	Micro-organisms in sewage treatment plants (STP)	10 mg/l
	Soil	0,045 mg/kg
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane	
	Freshwater	0,4 mg/l
	Marine water	0,04 mg/l
	Freshwater sediment	1,5 mg/kg
	Marine sediment	0,15 mg/kg
	Soil	0,06 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Use eye protection according to EN 166. Tightly sealed safety glasses.

Hand protection

Wear suitable gloves tested to EN374.

Suitable material: Butyl caoutchouc (butyl rubber), NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber).

Thickness of the glove material: $\geq 0,35 - 0,5$ mm

Breakthrough time: > 480 min

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Respiratory protection necessary at: exceeding exposure limit values

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Thermal hazards

No information available.

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	yellowish
Odour:	characteristic
Odour threshold:	not determined
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	This material is combustible, but will not ignite readily.
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	> 150 °C
Auto-ignition temperature:	> 250 °C
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / kinematic:	not determined
Water solubility:	Immiscible
Solubility in other solvents	not determined
Partition coefficient n-octanol/water:	not determined
Vapour pressure (at 20 °C):	not determined
Density (at 20 °C):	1,04 g/cm ³
Relative vapour density:	not determined
Particle characteristics:	not applicable

9.2. Other information**Other safety characteristics**

Viscosity / dynamic (at 23 °C): 1600 mPa·s

Further Information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

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10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic.

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.

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) > 12,5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
106264-79-3	6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine				
	oral	LD50 1515 mg/kg	Rat	Pre-supplier/manufacter	
	dermal	LD50 > 2000 mg/kg	Rabbit	Pre-supplier/manufacter	
1477-55-0	1,3-Benzoldimethanamine				
	oral	LD50 930 mg/kg	Rat	Pre-supplier/manufacter	
	dermal	LD50 > 3100 mg/kg	Rat	Pre-supplier/manufacter	
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) dust/mist	LC50 1,34 mg/l	Rat	Pre-supplier/manufacter	
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane				
	oral	LD50 6899 mg/kg	Rat	ECHA	
	dermal	LD50 3158 mg/kg	Rabbit	ECHA	
	inhalation (4 h) vapour	LC50 16,8 mg/l	Rat	ECHA	
	inhalation dust/mist	ATE 1,5 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine; 1,3-Benzoldimethanamine; trimethoxyvinylsilane; trimethoxy(vinyl)silane)

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Information on likely routes of exposure

oral, Skin contact, Eye contact, Inhalation.

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11.2. Information on other hazards**Endocrine disrupting properties**

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

SECTION 12: Ecological information**12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane					
	Acute fish toxicity	LC50 191 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA	
	Acute algae toxicity	ErC50 > 957 mg/l	72 h	Desmodesmus subspicatus	ECHA	EU method C.3
	Acute crustacea toxicity	EC50 168,7 mg/l	48 h	Daphnia magna (Big water flea)	ECHA	EU method C.2

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane			
	OECD 301F	51 %	28	ECHA
	Not readily biodegradable (according to OECD criteria)			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane	1,1

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

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Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9



Classification code:	M6
Special Provisions:	274 335 375 601
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	90
Tunnel restriction code:	-

Inland waterways transport (ADN)

14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9



Classification code:	M6
Special Provisions:	274 335 375 601
Limited quantity:	5 L
Excepted quantity:	E1

Marine transport (IMDG)

14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9



Marine pollutant:	P
Special Provisions:	274 335 969
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-A, S-F

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Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9



Special Provisions:	A97 A158 A197 A215
Limited quantity Passenger:	30 kg G
Passenger LQ:	Y964
Excepted quantity:	E1
IATA-packing instructions - Passenger:	964
IATA-max. quantity - Passenger:	450 L
IATA-packing instructions - Cargo:	964
IATA-max. quantity - Cargo:	450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: 6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Directive 2010/75/EU on industrial emissions: 0 %

Information according to Directive 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

National regulatory information

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

Water hazard class (D): 3 - highly hazardous to water

Additional information

Observe in addition any national regulations!

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**

Flam. Liq: Flammable liquid

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Acute Tox: Acute toxicity
 Skin Corr: Skin corrosion
 Skin Irrit: Skin irritation
 Eye Irrit: Eye irritation
 Skin Sens: Skin sensitisation
 Aquatic Acute: Acute aquatic hazard
 Aquatic Chronic: Chronic aquatic hazard
 CLP: Classification, Labelling and Packaging
 REACH: Registration, Evaluation and Authorization of Chemicals
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
 UN: United Nations
 EC/EEC: European Community/European Economic Community
 EU: European Union
 CAS: Chemical Abstracts Service
 M-Factor: Multiplication Factor
 DNEL: Derived No Effect Level
 DMEL: Derived Minimal Effect Level
 PNEC: Predicted No Effect Concentration
 ATE: Acute Toxicity Estimate
 LC50: Lethal Concentration, 50%
 LD50: Lethal Dose, 50%
 LL50: Lethal Loading, 50%
 EL50: Effect Loading, 50%
 EC50: Effective Concentration 50%
 ErC50: Effective Concentration 50%, growth rate
 NOEC: No Observed Effect Concentration
 BCF: Bio-Concentration Factor
 PBT: Persistent, Bioaccumulative, Toxic
 vPvB: very Persistent, very Bioaccumulative
 ADR: Accord européen sur le transport des marchandises Dangereuses par Route
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Regulations concerning the International carriage of Dangerous goods by rail
 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)
 IMDG: International Maritime Code for Dangerous Goods
 EmS: Emergency Schedules
 MFAG: Medical First Aid Guide
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 TI: Technical Instructions
 DGR: Dangerous Goods Regulations
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships
 IBC: Intermediate Bulk Container
 VOC: Volatile Organic Compounds
 IE: Industrial Emissions
 SVHC: Substance of Very High Concern

Key literature references and sources for data

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). (v.1.2, 2013)

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

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Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
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.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)