



# Safety Data Sheet

according to UK REACH Regulation

## 985 System Schutz Fuel Guard 500ml ALL

Revision date: 15.06.2021

Product code: 1106152

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

#### 1.1. Product identifier

985 System Schutz Fuel Guard 500ml ALL

UFI: 5MG2-Q0QX-200T-TQP4

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

##### Use of the substance/mixture

Additive

#### 1.3. Details of the supplier of the safety data sheet

Company name: TUNAP GmbH & Co. KG  
Street: Buergermeister-Seidl-Strasse 2  
Place: D-82515 Wolfratshausen  
Telephone: +49 (0) 8171/1600-0      Telefax: +49 (0) 8171/1600-40  
e-mail: sdb@tunap.com  
Internet: www.tunap.com

#### 1.4. Emergency telephone number:

111 NHS (National Health Service)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GB CLP Regulation

Acute Tox. 4; H302  
Skin Corr. 1C; H314  
Eye Dam. 1; H318  
Skin Sens. 1; H317  
STOT RE 2; H373  
Aquatic Acute 1; H400  
Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### GB CLP Regulation

##### Hazard components for labelling

2-(2-heptadec-8-enyl-2-imidazol-1-yl)ethanol  
2-Ethylhexyl nitrate  
bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)  
[(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)  
[(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)  
[(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)  
[(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine

Signal word: Danger

Pictograms:



##### Hazard statements

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

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H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P260	Do not breathe vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P312	Call a POISON CENTER/doctor if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.

**2.3. Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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

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**Hazardous components**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol			50 - < 100 %
	202-414-9		01-2119777867-13	
	Acute Tox. 4, Skin Corr. 1C, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H373 H400 H410			
64742-48-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics			10 - < 20 %
	918-481-9		01-2119457273-39	
	Asp. Tox. 1; H304 EUH066			
128-37-0	2,6-di-tert-butyl-p-cresol			5 - < 10 %
	204-881-4		01-2119555270-46	
	Aquatic Chronic 1; H410			
27247-96-7	2-Ethylhexyl nitrate			5 - < 10 %
	248-363-6		01-2119539586-27	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Aquatic Chronic 2; H332 H312 H302 H411 EUH044 EUH066			
104-76-7	2-Ethylhexan-1-ol			5 - < 10 %
	203-234-3		01-2119487289-20	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H332 H315 H319 H335			
	bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine			5 - < 10 %
	939-700-4		01-2119982395-25	
	Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H315 H317 H400 H411			

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

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**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
95-38-5	202-414-9	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	50 - < 100 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = ca. 1085 mg/kg M acute; H400: M=10 M chron.; H410: M=1	
64742-48-9	918-481-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	10 - < 20 %
		inhalation: LC50 = 4951 mg/l (vapours); dermal: LD50 = >3160 mg/kg; oral: LD50 = >8000 mg/kg	
27247-96-7	248-363-6	2-Ethylhexyl nitrate	5 - < 10 %
		inhalation: LC50 = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >4820 mg/kg; oral: LD50 = >9640 mg/kg	
104-76-7	203-234-3	2-Ethylhexan-1-ol	5 - < 10 %
		inhalation: LC50 = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 3000 mg/kg; oral: LD50 = 2047 mg/kg	
	939-700-4	bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine	5 - < 10 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 3313 mg/kg	

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

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

**After inhalation**

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with skin**

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with eyes**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Headache, nausea, dizziness, fatigue, skin irritation

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Water fog. Foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder.



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#### Unsuitable extinguishing media

High power water jet.

#### 5.2. Special hazards arising from the substance or mixture

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO<sub>2</sub>, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

#### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### General advice

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Wear personal protection equipment.

##### For non-emergency personnel

First aider: Pay attention to self-protection!

##### For emergency responders

Fight fire with normal precautions from a reasonable distance.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

#### 6.3. Methods and material for containment and cleaning up

##### For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

##### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

##### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

#### 6.4. Reference to other sections

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

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

When using do not eat, drink, smoke, sniff.

Wear personal protection equipment (refer to section 8).

##### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

##### Advice on general occupational hygiene

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Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

**Further information on handling**

Avoid contact with skin and eyes.

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

Keep container tightly closed. Observe legal regulations and provisions.

**Hints on joint storage**

Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

**Further information on storage conditions**

Store in a cool dry place. Observe legal regulations and provisions.

**7.3. Specific end use(s)**

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
128-37-0	2,6-Di-tert-butyl-p-cresol	-	10		TWA (8 h)	WEL
104-76-7	2-ethylhexan-1-ol	1	5.4		TWA (8 h)	WEL

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**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol			
Worker DNEL, long-term		inhalation	systemic	0,46 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	14 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,06 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	2 mg/kg bw/day
27247-96-7	2-Ethylhexyl nitrate			
Worker DNEL, long-term		inhalation	systemic	0,35 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	1 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	0,52 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,025 mg/kg bw/day
	bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine			
Worker DNEL, long-term		inhalation	systemic	1,3 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,4 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,3 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,2 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,2 mg/kg bw/day

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**PNEC values**

CAS No	Substance	Value
Environmental compartment		Value
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	
Freshwater		0 mg/l
Freshwater (intermittent releases)		0 mg/l
Marine water		0 mg/l
Freshwater sediment		0,376 mg/kg
Marine sediment		0,038 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,27 mg/l
Soil		0,075 mg/kg
27247-96-7	2-Ethylhexyl nitrate	
Freshwater		0,0008 mg/l
Marine water		0,00008 mg/l
Freshwater sediment		0,00074 mg/kg
Marine sediment		0,00074 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,000191 mg/kg
	bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine	
Freshwater		0,001 mg/l
Freshwater (intermittent releases)		0,01 mg/l
Marine water		0 mg/l
Micro-organisms in sewage treatment plants (STP)		0,69 mg/l

**Additional advice on limit values**

- a no restriction
- b End of exposure or end of shift
- c at long-term exposure:
- d before next shift

blood (B)  
Urine (U)

**8.2. Exposure controls****Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used.

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

Suitable eye protection: Tightly sealed safety glasses.  
EN 166

**Hand protection**

Protect skin by using skin protective cream. 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.





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Suitable material: NBR (Nitrile rubber) Breakthrough time: 480min  
Thickness of the glove material 0,45 mm  
EN ISO 374

### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
When exceeding the relevant workplace exposure limits, note the following:  
Suitable respiratory protective equipment: Combination filter device (DIN EN 141)..  
Filtering device with filter or ventilator filtering device of type: A  
Observe the wear time limits as specified by the manufacturer.  
Observe legal regulations and provisions.

### Environmental exposure controls

Observe legal regulations and provisions.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	yellow, clear	
Odour:	solvent like	
		<b>Test method</b>
Boiling point or initial boiling point and boiling range:	160 °C	
Lower explosion limits:	0,5 vol. %	
Upper explosion limits:	7 vol. %	
Flash point:	69 °C	ISO 3679
Auto-ignition temperature:	215 °C	
pH-Value (at 20 °C):		DIN 19268
Viscosity / kinematic: (at 40 °C)	25,2 mm <sup>2</sup> /s	DIN EN ISO 3104
Density (at 20 °C):	0,9 g/cm <sup>3</sup>	DIN 51757

### 9.2. Other information

#### Information with regard to physical hazard classes

Sustaining combustion:	No data available
Sublimation point:	No information available.
Softening point:	No information available.
Pour point:	No information available.
Viscosity / dynamic:	DIN 53019-1
Flow time: (at 20 °C)	DIN EN ISO 2431

## 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 normal conditions.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

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**10.4. Conditions to avoid**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharges.

**10.5. Incompatible materials**

Oxidizing agents. Pyrophoric or self-heating substances.

**10.6. Hazardous decomposition products**

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO<sub>2</sub>, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

**Further information**

Do not mix with other chemicals.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**Acute toxicity**

Harmful if swallowed.

**ATEmix calculated**

ATE (oral) 1520,5 mg/kg

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol				
	oral	LD50 ca. 1085 mg/kg	Rat	Study report (1989)	OECD Guideline 401
	dermal	LD50 >2000 mg/kg	Rabbit		
64742-48-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics				
	oral	LD50 >8000 mg/kg	Rat		
	dermal	LD50 >3160 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 4951 mg/l	Rat		
27247-96-7	2-Ethylhexyl nitrate				
	oral	LD50 >9640 mg/kg	Rat		
	dermal	LD50 >4820 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 11 mg/l	Rat		
	inhalation dust/mist	ATE 1,5 mg/l			
104-76-7	2-Ethylhexan-1-ol				
	oral	LD50 2047 mg/kg	Rat		
	dermal	LD50 > 3000 mg/kg	Rat		
	inhalation (4 h) vapour	LC50 11 mg/l	Rat		
	inhalation dust/mist	ATE 1,5 mg/l			
	bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine				
	oral	LD50 3313 mg/kg	Rat	Study report (1981)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2012)	OECD Guideline 402

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

Causes serious eye damage.

**Sensitising effects**

May cause an allergic skin reaction. (bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine)

**Carcinogenic/mutagenic/toxic effects for reproduction**



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

No indications of human carcinogenicity exist.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

#### **STOT-single exposure**

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

#### **STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol)

#### **Aspiration hazard**

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

#### **Specific effects in experiment on an animal**

No information available.

#### **Additional information on tests**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## SECTION 12: Ecological information

### **12.1. Toxicity**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol					
	Acute fish toxicity	LC50 0,3 mg/l	96 h	Danio rerio (zebrafish)		
	Acute algae toxicity	ErC50 0,03 mg/l	72 h	Desmodesmus subspicatus	Study report (2010)	OECD Guideline 201
	Acute crustacea toxicity	EC50 0,163 mg/l	48 h	Daphnia magna	Study report (2010)	OECD Guideline 202
64742-48-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics					
	Acute fish toxicity	LC50 >1000 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 >1000 mg/l	96 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 >1000 mg/l	48 h	Daphnia magna		
27247-96-7	2-Ethylhexyl nitrate					
	Acute fish toxicity	LC50 2 mg/l	96 h	Danio rerio	Study report (2010)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 12,6 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1998)	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 12,6 mg/l	48 h	Daphnia magna	Study report (1998)	OECD Guideline 202
	Acute bacteria toxicity	(EC50 > 1000 mg/l)	3 h	activated sludge of a predominantly domestic sewage	Study report (2010)	OECD Guideline 209
104-76-7	2-Ethylhexan-1-ol					
	Acute fish toxicity	LC50 17,1 mg/l	96 h	Leuciscus idus (golden orfe)		
	Acute algae toxicity	ErC50 11,5 mg/l	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 39 mg/l	48 h	Daphnia magna		
	bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine					
	Acute fish toxicity	LC50 1,3 mg/l	96 h	Danio rerio	Study report (1988)	OECD Guideline 203
	Acute algae toxicity	ErC50 0,976 mg/l	72 h	Desmodesmus subspicatus	Study report (2013)	OECD Guideline 201

### 12.2. Persistence and degradability

There are no data available on the mixture itself. AOX (mg/l): 0

### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

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**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	8,4
27247-96-7	2-Ethylhexyl nitrate	5,24
104-76-7	2-Ethylhexan-1-ol	2,9
	bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine	6,56

**BCF**

CAS No	Chemical name	BCF	Species	Source
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	371,8		EPIWIN calculation (
	bis(2-ethylhexyl)[(4-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(4-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine; bis(2-ethylhexyl)[(5-methyl-2H-1,2,3-benzotriazol-2-yl)methyl]amine; bis(2-ethylhexyl)[(6-methyl-1H-1,2,3-benzotriazol-1-yl)methyl]amine	1676		EPIWIN (2011)

**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 UK REACH.

This substance does not meet the criteria for classification as PBT or vPvB.

**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**

Do not allow uncontrolled discharge of product into 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.

**List of Wastes Code - residues/unused products**

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors; hazardous waste

**List of Wastes Code - used product**

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070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Water (with cleaning agent). Completely emptied packages can be recycled.

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

**14.1. UN number or ID number:** UN 3267  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8  
Classification code: C7  
Special Provisions: 274  
Limited quantity: 5 L  
Excepted quantity: E1  
Transport category: 3  
Hazard No: 80  
Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 3267  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8  
Classification code: C7  
Special Provisions: 274  
Limited quantity: 5 L  
Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 3267  
**14.2. UN proper shipping name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8  
Marine pollutant: yes  
Special Provisions: 223, 274  
Limited quantity: 5 L  
Excepted quantity: E1  
EmS: F-A, S-B

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 3267



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<b>14.2. UN proper shipping name:</b>	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol)
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	III
Hazard label:	8
Special Provisions:	A3 A803
Limited quantity Passenger:	1 L
Passenger LQ:	Y841
Excepted quantity:	E1
IATA-packing instructions - Passenger:	852
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	856
IATA-max. quantity - Cargo:	60 L

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:	Yes
Danger releasing substance:	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol

### 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 28

2010/75/EU (VOC):	No information available.
2004/42/EC (VOC):	No information available.
Information according to 2012/18/EU (SEVESO III):	E1 Hazardous to the Aquatic Environment

##### Additional information

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

##### 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

### SECTION 16: Other information

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonized 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/DMEL: Derived No Effect Level / Derived Minimal Effect Level

WEL: Workplace Exposure Limits

TWA (EC): Time-Weighted Average

ATE: Acute Toxicity Estimate



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ATEL (EC): Short Term Exposure Limit

LC50: Lethal Concentration

EC50: half maximal Effective Concentration

ErC50: means EC50 in terms of reduction of growth rate

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Skin Corr. 1C; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

**Relevant H and EUH statements (number and full text)**

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.
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.
H411	Toxic to aquatic life with long lasting effects.
EUH044	Risk of explosion if heated under confinement.
EUH066	Repeated exposure may cause skin dryness or cracking.

**Further Information**

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.

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