

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS Violin ATF III MV**

Revision date: 01.06.2023

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

SRS Violin ATF III MV

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

gear oil

**Uses advised against**

none

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

Company name: SRS Schmierstoff Vertrieb GmbH  
Street: Neuenkirchener Straße 8  
Place: D-48497 Salzbergen  
Telephone: 05976 - 945-0  
Responsible Department: Abt. Produktsicherheit: info.reach@srs-oil.de

**1.4. Emergency telephone number:**

Gift-Informationszentrum Nord (Göttingen)  
Telefon 0551-19240

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.  
P501 Dispose of contents/container to local/regional/national/international regulations.

**Special labelling of certain mixtures**

EUH208 Contains 1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs., C14-18 alpha-olefin epoxide, reaction products with boric acid. May produce an allergic reaction.

**2.3. Other hazards**

This mixture contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

For information or further instructions, see also section 11 or 12.

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

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
64742-55-8	Destillate (Erdöl), mit Wasserstoff behandelte leichte paraffinhaltige; Grundöl - nicht spezifiziert	45 - < 50 %		
	265-158-7	649-468-00-3	01-2119487077-29	



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	Asp. Tox. 1; H304		
	Mineral Oil* (64742-54-7, 64742-65-0, 64742-55-8, 64742-56-9)		3 - < 5 %
	Asp. Tox. 1; H304		
398141-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich		1 - < 3 %
	800-172-4	01-2119969520-35	
	Aquatic Chronic 2; H411		
	Amines, dicoco alkyl, reaction prods with hydroxyacetic acid.		0.5 - < 1 %
	471-920-1	01-0000019770-68	
	Skin Sens. 1B; H317		
	1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs.		0.5 - < 1 %
	482-000-4	01-0000020142-86	
	Skin Sens. 1B, Aquatic Chronic 3; H317 H412		
67124-09-8	1-(tert-dodecylthio)propan-2-ol		0.3 - < 0.5 %
	266-582-5	01-2119953277-30	
	Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410		
7664-38-2	phosphoric acid; orthophosphoric acid ... %**		0.1 - < 0.2 %
	231-633-2	015-011-00-6	
	Skin Corr. 1B; H314		
1471314-23-4	C14-18 alpha-olefin epoxide, reaction products with boric acid		0.1 - < 0.2 %
	939-580-3	01-2119976364-28	
	Skin Sens. 1B; H317		
75975-85-8	Benzene, polypropene derivatives, sulfonated, calcium salts		0.1 - < 0.2 %
	Skin Sens. 1B; H317		
1218787-32-6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol		< 0.1 %
	620-540-6	01-2119510877-33	
	Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H400 H410		
95-38-5	2-(2-heptadec-8-enyl-2-imidazol-1-yl)ethanol		< 0.1 %
	202-414-9	01-2119777867-13	
	Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H373 H400 H410		
91-20-3	naphthalene**		< 0.1 %
	202-049-5	601-052-00-2	
	Carc. 2, Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1; H351 H302 H400 H410		

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	
64742-55-8	265-158-7	Destillate (Erdöl), mit Wasserstoff behandelte leichte paraffinhaltige; Grundöl - nicht spezifiziert	45 - < 50 %
		inhalation: LC50 = > 5,53 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
398141-87-2	800-172-4	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich	1 - < 3 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
	471-920-1	Amines, dicoco alkyl, reaction prods with hydroxyacetic acid.	0.5 - < 1 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg Skin Sens. 1B; H317: >= 9,4 - 100	
	482-000-4	1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs.	0.5 - < 1 %

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	dermal: LD50 = >2000 mg/kg; oral: LD50 = >2500 mg/kg		
67124-09-8	266-582-5	1-(tert-dodecylthio)propan-2-ol	0.3 - < 0.5 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = >5000 mg/kg Skin Sens. 1B; H317: >= 14,2 - 100		
7664-38-2	231-633-2	phosphoric acid; orthophosphoric acid ... %**	0.1 - < 0.2 %
	Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25		
1471314-23-4	939-580-3	C14-18 alpha-olefin epoxide, reaction products with boric acid	0.1 - < 0.2 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = >16000 mg/kg		
75975-85-8		Benzene, polypropene derivatives, sulfonated, calcium salts	0.1 - < 0.2 %
	Skin Sens. 1B; H317: >= 10 - 100		
1218787-32-6	620-540-6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	< 0.1 %
	oral: LD50 = 1200 mg/kg Aquatic Acute 1; H400: M=10		
95-38-5	202-414-9	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	< 0.1 %
	oral: LD50 = ca. 1265 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1		
91-20-3	202-049-5	naphthalene**	< 0.1 %
	oral: ATE = 500 mg/kg		

#### Further Information

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London).

\*The mineral oil can be described by one or more EINECS numbers. 265-157-1, 265-169-7, 265-158-7, 265-159-2, (REACH-no.: 01-2119484627-25, 01-2119471299-27, 01-2119487077-29, 01-2119480132-48)

\*\*Substance for which a community occupational exposure limit value applies in the European Union.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, seek medical treatment.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

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

If swallowed or in the event of vomiting, risk of entering the lungs.

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

Treat symptomatically.

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

Sand. Foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

**Unsuitable extinguishing media**

High power water jet.

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

Burning produces heavy smoke.

In case of fire may be liberated: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>) Sulphur dioxide (SO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>)

**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Ventilate affected area.

Special danger of slipping by leaking/spilling product.

**For non-emergency personnel**

Wear personal protection equipment (refer to section 8).

**For emergency responders**

No special precautionary measures are necessary.

**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). Do not allow to enter into soil/subsoil. If required, notify relevant authorities according to all applicable regulations.

**6.3. Methods and material for containment and cleaning up****For containment**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

**6.4. Reference to other sections**

No information available.

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

Wear suitable protective clothing. ( See section 8. )

Avoid formation of oil dust.

**Advice on protection against fire and explosion**

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

Fire class B

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#### Advice on general occupational hygiene

Clean skin thoroughly after working.

Do not put any product-impregnated cleaning rags into your trouser pockets.

#### Further information on handling

Do not breathe vapour/aerosol.

Avoid contact with eyes and skin.

General protection and hygiene measures: See section 8.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

##### Hints on joint storage

Do not store together with: Gas. Explosives. Oxidizing substances. Radioactive substances. Infectious substances

##### Further information on storage conditions

Temperature control required. Protect from light. Keep container tightly closed. Do not allow contact with air.

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

See section 1.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
91-20-3	Naphtalene	10	50		TWA (8 h)	
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	
		-	2		STEL (15 min)	

##### DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
64742-55-8	Destillate (Erdöl), mit Wasserstoff behandelte leichte paraffinhaltige; Grundöl - nicht spezifiziert			
Worker DNEL, long-term	inhalation	systemic		2,73 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local		5,58 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic		0,97 mg/kg bw/day
Consumer DNEL, long-term	inhalation	local		1,19 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic		0,74 mg/kg bw/day
398141-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich			
Worker DNEL, long-term	inhalation	systemic		24,7 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic		350 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic		4,35 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic		125 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic		2,5 mg/kg bw/day
	Amines, dicoco alkyl, reaction prods with hydroxyacetic acid.			
Worker DNEL, acute	dermal	local		0.417 mg/cm <sup>2</sup>



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67124-09-8	1-(tert-dodecylthio)propan-2-ol		
Consumer DNEL, long-term	inhalation	systemic	2,9 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	1,67 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,84 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	11,8 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	3,34 mg/kg bw/day
Worker DNEL, long-term	dermal	local	0.215 mg/cm <sup>2</sup>
1471314-23-4	C14-18 alpha-olefin epoxide, reaction products with boric acid		
Worker DNEL, long-term	dermal	local	0,09 mg/cm <sup>2</sup>
Consumer DNEL, long-term	dermal	local	4,68 mg/cm <sup>2</sup>
1218787-32-6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol		
Worker DNEL, long-term	dermal	systemic	0,42 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,522 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	0,15 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,15 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	2,96 mg/m <sup>3</sup>
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

#### PNEC values

CAS No	Name of agent	Value
Environmental compartment		Value
64742-55-8	Destillate (Erdöl), mit Wasserstoff behandelte leichte paraffinhaltige; Grundöl - nicht spezifiziert	
Secondary poisoning		9,33 mg/kg
398141-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich	
Freshwater		0,0024 mg/l
Freshwater (intermittent releases)		0,024 mg/l
Marine water		0,00033 mg/l
Freshwater sediment		0,433 mg/kg
Marine sediment		0,0596 mg/kg
Secondary poisoning		111,11 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,0853 mg/kg
Amines, dicoco alkyl, reaction prods with hydroxyacetic acid.		
Freshwater		0.4 mg/l
Marine water		0.04 mg/l

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Freshwater sediment	17 100 mg/kg
Marine sediment	1 701 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	3 416 mg/kg
67124-09-8	1-(tert-dodecylthio)propan-2-ol
Freshwater	0,006 mg/l
Freshwater (intermittent releases)	0,006 mg/l
Marine water	0,001 mg/l
Freshwater sediment	8,28 mg/kg
Marine sediment	0,828 mg/kg
Secondary poisoning	33,33 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	0,244 mg/kg
1471314-23-4	C14-18 alpha-olefin epoxide, reaction products with boric acid
Freshwater	1 mg/l
Marine water	0,1 mg/l
Freshwater sediment	42700 mg/kg
Marine sediment	4270 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	8540 mg/kg
1218787-32-6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol
Freshwater	0,000214 mg/l
Freshwater (intermittent releases)	0,00087 mg/l
Marine water	0,000021 mg/l
Freshwater sediment	1,692 mg/kg
Marine sediment	0,169 mg/kg
Secondary poisoning	2 mg/kg
Micro-organisms in sewage treatment plants (STP)	1,5 mg/l
Soil	5 mg/kg
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

**Additional advice on limit values**

Air limit values:

Possibility of exposure to Aerosol (Mineral oil )

Limit value (TLV-TWA ) = 5 mg/ m<sup>3</sup> - Source: ACGIHLimit value (TLV-STEL ) = 10 mg/ m<sup>3</sup> - Source: ACGIH

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STEL: short-term exposure limits  
 TLV: Threshold Limiting Value  
 TWA: time weighted average  
 ACGIH: American Conference of Governmental Industrial Hygienists

#### 8.2. Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Safety goggles with side protection. In case of increased risk add protective face shield. EN 166

##### Hand protection

Use safety gloves of following materials: NBR (nitrile) / neopren / viton (permeationslevel 5 - 6), Cat. II according to norm EN 374/EN 388.

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.

Gloves must be periodically inspected and changed in case of wear, perforations or contaminations.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

##### Skin protection

Oil-resistant and hardly inflammable protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

##### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

- aerosol or mist formation
- Exceeding exposure limit values

Suitable respiratory protection apparatus: Respiratory equipment in case of nebulosity or aerosol: Use a mask with a filter type A2, A2/P2 or ABEK.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

##### Environmental exposure controls

No information available.

## SECTION 9: Physical and chemical properties

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

Physical state:	liquid
Colour:	clear , red
Odour:	characteristic

Melting point/freezing point:	No information available.
Boiling point or initial boiling point and boiling range:	No information available.
Flammability:	No information available.
Lower explosion limits:	No information available.

#### Test method



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Upper explosion limits:	No information available.
Flash point:	210 °C COC
Auto-ignition temperature:	No information available.
Decomposition temperature:	No information available.
pH-Value:	No information available.
Viscosity / kinematic: (at 40 °C)	36 mm <sup>2</sup> /s DIN EN ISO 3104
Water solubility:	No information available.
Solubility in other solvents	No information available.
No information available.	
Partition coefficient n-octanol/water:	No information available.
Vapour pressure: (at 20 °C)	No information available.
Vapour pressure: (at 50 °C)	No information available.
Density (at 15 °C):	0,851 g/cm <sup>3</sup> DIN 51757
Bulk density:	No information available.
Relative vapour density:	No information available.
Particle characteristics:	No information available.

**9.2. Other information****Information with regard to physical hazard classes**

Explosive properties

none

Sustaining combustion:

No data available

Self-ignition temperature

Solid:

No information available.

Gas:

No information available.

Oxidizing properties

none

**Other safety characteristics**

Evaporation rate:

No information available.

Solvent separation test:

No information available.

Solvent content:

No information available.

Solid content:

No information available.

Sublimation point:

No information available.

Softening point:

No information available.

Pour point:

-54 °C

Viscosity / dynamic:

No information available.

Flow time:

No information available.

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

No information available.

**10.2. Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

Refer to chapter 10.5.

**10.4. Conditions to avoid**

No information available.

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#### 10.5. Incompatible materials

Oxidising agent, strong

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Toxicokinetics, metabolism and distribution

No information available.

##### Acute toxicity

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

##### ATEmix calculated

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-55-8	Destillate (Erdöl), mit Wasserstoff behandelte leichte paraffinhaltige; Grundöl - nicht spezifiziert				
	oral	LD50 > 5000 mg/kg	Rat	ECHA Dossier	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rabbit	ECHA Dossier	OECD Guideline 402
	inhalation (4 h) dust/mist	LC50 > 5,53 mg/l	Rat	ECHA Dossier	OECD Guideline 403
398141-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich				
	oral	LD50 >5000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rabbit.	ECHA Dossier	
	Amines, dicoco alkyl, reaction prods with hydroxyacetic acid.				
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rabbit	ECHA Dossier	
	1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs.				
	oral	LD50 >2500 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rabbit	ECHA Dossier	
67124-09-8	1-(tert-dodecylthio)propan-2-ol				
	oral	LD50 >5000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 > 2000 mg/kg	Rabbit	ECHA Dossier	OECD Guideline 434
1471314-23-4	C14-18 alpha-olefin epoxide, reaction products with boric acid				
	oral	LD50 >16000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rabbit	ECHA Dossier	

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1218787-32-6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol				
	oral	LD50 mg/kg	1200	Rat	ECHA Dossier
					OECD Guideline 425
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol				
	oral	LD50 mg/kg	ca. 1265	Rat	ECHA Dossier
					OECD Guideline 401
91-20-3	naphthalene**				
	oral	ATE mg/kg	500		

#### Irritation and corrosivity

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

#### Sensitising effects

Contains 1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs., C14-18 alpha-olefin epoxide, reaction products with boric acid. May produce an allergic reaction.

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic:

In vitro mutagenicity/genotoxicity:

Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) with modifications

Results: negative. / positive.

Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

Results: negative.

Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Results: negative. / positive.

Literature information: ECHA Dossier

In vivo mutagenicity/genotoxicity

Method: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Results: negative. ; Literature information: ECHA Dossier

Reproductive toxicity

Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

Exposure time: 28d; Species: Rat

Results: NOAEL = > 2000 mg/kg(bw)/day; Literature information: ECHA Dossier

Developmental toxicity/teratogenicity:

Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Exposure time: 28d; Species: Rat

Results: NOAEL = > 2000 mg/kg(bw)/day; Literature information: ECHA Dossier

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich

In-vitro mutagenicity: Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test);

Result: negative.; Literature information: ECHA Dossier; Reproductive toxicity: Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test); Species: Rat; Results: NOAEL = 175 (systemic) /600 mg/kg; Literature information: ECHA Dossier

1-(tert-dodecylthio)propan-2-ol:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay), Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test), Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test); Result: negative.; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity/Reproductive toxicity;; Method: OECD Guideline 415 (One-Generation Reproduction Toxicity Study); Species: Rat Sprague-Dawley; Results: NOAEL = 500 mg/kg (P) / 167 mg/kg (F1); Literature information: ECHA Dossier

C14-18 alpha-olefin epoxide, reaction products with boric acid:

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Reproductive toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test); Species: Rat ; Length of test: 4 d. Results: NOAEL = 500 mg/kg; Literature information: ECHA Dossier; In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay), Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test), Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Amines, dicoco alkyl, reaction prods with hydroxyacetic acid.:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay), Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test), Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test); Result: negative.; Literature information: ECHA Dossier; Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test); Species: Rat ; Results: NOAEL >= 1000 mg/kg; Literature information: ECHA Dossier

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:

In vitro mutagenicity/genotoxicity: Method: OECD 471 (Ames test). Result / evaluation: negative.; Reproductive toxicity: Method: OECD 422. . Species: Rat. Exposure time:51d. Result / evaluation: NOAEL > 20 mg/kg bw/day. Literature information: ECHA Dossier

#### 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.

Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic:

Subacute inhalative toxicity : Method: -; Exposure time: 28d; Species: Rat; Results: NOAEL > 980 mg/m<sup>3</sup>; Literature information: J Appl Toxicol, Vol 11(4), pp 297-302; Subacute dermal toxicity: Method: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study); Exposure time: 28d; Species: Rabbit; Results: NOAEL 1000 mg/kg(bw)/day; Literature information: ECHA Dossier; Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents); Species: Rat; Results: NOAEL = 125 mg/kg; Literature information: ECHA Dossier

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich:

Subacute oral toxicity: Method: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents); Species: Rat; Results: NOAEL = 500 mg/kg; Literature information: ECHA Dossier

1-(tert-dodecylthio)propan-2-ol:

Subacute oral toxicity: Method: WoE; OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents); Species: Rat ; Exposure duration: 28 d. Results: NOEL = 300; NOAEL >= 1000 mg/kg; Literature information: ECHA Dossier

Amines, dicoco alkyl, reaction prods with hydroxyacetic acid.:

Subacute oral toxicity: Method: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents); Species: Rat ; Exposure duration: 28 d. Results: NOAEL >= 1000 mg/kg; Literature information: ECHA Dossier

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:

Subacute oral toxicity: Method: OECD 422. Species: Rat. Result / evaluation: NOAEL 20 mg/kg bw/day  
Literature information: ECHA Dossier

#### Aspiration hazard

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

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

No information available.

##### Other information

Frequently or prolonged contact with skin may cause dermal irritation.

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#### 12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64742-55-8	Destillate (Erdöl), mit Wasserstoff behandelte leichte paraffinhaltige; Grundöl - nicht spezifiziert					
	Acute fish toxicity	LC50 100 mg/l	LL50 >	96 h	Pimephales promelas (fathead minnow)	ECHA Dossier OECD Guideline 203
	Acute crustacea toxicity	EC50 >10000 mg/l	EL50	48 h	Daphnia magna (Big water flea)	ECHA Dossier OECD Guideline 202
	Algae toxicity	NOEC 100 mg/l	NOEL >	3 d	Pseudokirchneriella subcapitata	ECHA Dossier
	Crustacea toxicity	NOEC 10 mg/l	NOEL >	21 d	Daphnia magna (Big water flea)	ECHA Dossier OECD Guideline 211
398141-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich					
	Acute fish toxicity	LL50 2,4 mg/l		96 h	Oncorhynchus mykiss	ECHA Dossier OECD Guideline 203
	Acute algae toxicity	ErC50 3,5 mg/l	EbL50:	72 h	Desmodesmus subspicatus	ECHA Dossier
	Acute crustacea toxicity	EC50 4,6 mg/l		48 h	Daphnia magna	ECHA Dossier OECD Guideline 202
	Acute bacteria toxicity	(EC50 mg/l)	> 10000	3 h	activated sludge of a predominantly domestic sewage	ECHA Dossier OECD Guideline 209
	Amines, dicoco alkyl, reaction prods with hydroxyacetic acid.					
	Acute fish toxicity	LC50 1,2 mg/l		96 h	Oncorhynchus mykiss	ECHA Dossier
	Acute algae toxicity	ErC50 mg/l	>0,112	72 h	Desmodesmus subspicatus	ECHA Dossier
	Acute crustacea toxicity	EC50 mg/l	0,21	48 h	Daphnia magna	ECHA Dossier
	Crustacea toxicity	NOEC 56 mg/l			Daphnia magna	ECHA Dossier
	1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs.					
	Acute fish toxicity	LC50 mg/l	>100	96 h	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50 mg/l	16 mg/l	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50 mg/l	230 mg/l	48 h	Daphnia magna	
67124-09-8	1-(tert-dodecylthio)propan-2-ol					
	Acute fish toxicity	LL50 mg/l	0,75	96 h	Oncorhynchus mykiss	ECHA Dossier OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 100	96 h	Desmodesmus subspicatus	ECHA Dossier OECD Guideline 201
	Acute crustacea toxicity	EL50 mg/l	0,58	48 h	Daphnia magna	ECHA Dossier OECD Guideline 202
	Crustacea toxicity	NOEC mg/l	0,32	21 d	Daphnia magna	ECHA Dossier OECD Guideline 211
	Acute bacteria toxicity	(EC50 mg/l)	> 10000	3 h	Activated sludge	ECHA Dossier OECD Guideline 209
7664-38-2	phosphoric acid; orthophosphoric acid ... %**					
	Acute fish toxicity	LC50 138 mg/l		96 h	Gambusia affinis	
1471314-23-4	C14-18 alpha-olefin epoxide, reaction products with boric acid					
	Acute fish toxicity	LC50 100 mg/l	LL50 >	96 h	Oncorhynchus mykiss	ECHA Dossier

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	Acute algae toxicity	ErC50 >100 mg/l	EL50	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50 >100 mg/l	EL50	48 h	Daphnia magna	ECHA Dossier	
	Crustacea toxicity	NOEC	10 mg/l	21 d	Daphnia magna	ECHA Dossier	
1218787-32-6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol						
	Acute fish toxicity	LC50	0,6 mg/l	96 h	Danio rerio	ECHA Dossier	READ ACROSS
	Acute algae toxicity	ErC50 mg/l	0,0867	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	READ ACROSS
	Crustacea toxicity	NOEC mg/l	0,32	21 d	Daphnia magna	ECHA Dossier	READ ACROSS
	Acute bacteria toxicity	(EC50 mg/l)	167	3 h	activated sludge of a predominantly domestic sewage	ECHA Dossier	READ ACROSS
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol						
	Acute algae toxicity	ErC50 mg/l	0,03	72 h	Desmodesmus subspicatus	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	0,163	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202

#### 12.2. Persistence and degradability

The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

CAS No	Chemical name	Method	Value	d	Source
	Evaluation				
64742-55-8	Destillate (Erdöl), mit Wasserstoff behandelte leichte paraffinhaltige; Grundöl - nicht spezifiziert				
	OECD Guideline 301 F		31%	28	ECHA Dossier
398141-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich				
	OECD 301C / ISO 9408 / EEC 92/69 annex V, C.4-F		9,6%	28	ECHA Dossier
	Amines, dicoco alkyl, reaction prods with hydroxyacetic acid.				
	not determined		67%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).				
	1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs.				
	not determined		11%	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)				
67124-09-8	1-(tert-dodecylthio)propan-2-ol				
	OECD Guideline 301 F		5,9%	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)				
1471314-23-4	C14-18 alpha-olefin epoxide, reaction products with boric acid				
	OECD Guideline 301 B		26,7%	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)				
1218787-32-6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol				
	OECD Guideline 301 D		52%	28	ECHA Dossier
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol				
	OECD Guideline 301 B		1%	28	ECHA Dossier

#### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

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#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64742-55-8	Destillate (Erdöl), mit Wasserstoff behandelte leichte paraffinhaltige; Grundöl - nicht spezifiziert	> 3,5
398141-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich	4,11
67124-09-8	1-(tert-dodecylthio)propan-2-ol	> 4,72 - < 6,51
1471314-23-4	C14-18 alpha-olefin epoxide, reaction products with boric acid	>= 6.24 - 9.4
1218787-32-6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	3,6
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	8,4

#### BCF

CAS No	Chemical name	BCF	Species	Source
398141-87-2	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich	31	Cyprinus carpio	ECHA Dossier
1218787-32-6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	110,2		QSAR result (2010)
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	1,65		calculation

#### 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.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

#### 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.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

#### 12.7. Other adverse effects

No information available.

#### Further information

Ozone depletion potential (ODP): No information available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

##### 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

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

### SECTION 14: Transport information

#### Land transport (ADR/RID)

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<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	UN 9006
<b>14.2. UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<b>14.3. Transport hazard class(es):</b>	9
<b>14.4. Packing group:</b>	-
Hazard label:	-
Classification code:	M12

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

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

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

**14.7. Maritime transport in bulk according to IMO instruments**

not relevant

**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 75

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

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

REACH 1907/2006 Appendix XVII, No (mixture): 3

Observe in addition any national regulations!

**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): 2 - obviously hazardous to water

**Additional information**

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import



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of dangerous chemicals: not relevant

15.2 Chemical Safety Assessment  
not applicable.**SECTION 16: Other information****Changes**

Rev. : 1,0 - 01.06.2016

Rev.: 2,0 - 15.06.2017

Rev. : 3,0 - 29.06.2018

Rev.: 4,0 - 25.06.2019

Rev. : 5,0 - 25.06.2020; Changes in chapter: 1.1, 3.2, 11,1, 15.1, 16

Rev.: 6,0 - 04.06.2021; Changes in chapter: 3.2, 6.1, 6.3, 8.1, 11.1, 11.2, 12.1, 12.2, 12.3, 12.6, 12.7, 15.1,16

Rev.: 7,0 - 14.06.2022, Changes in chapter: 2.3, 3.2, 8.1, 8.2, 11.1, 12.1, 12.5, 12.6, 16

Rev.: 8,0 - 01.06.2023, Changes in chapter: 2.2, 3.2, 2.3, 8.1, 9.1, 12.1, 12.2, 12.3, 12.7, 14, 16

**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)

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

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

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

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

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

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

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains 1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs., C14-18 alpha-olefin epoxide, reaction products with boric acid. May produce an allergic reaction.

**Further Information**

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

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data

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.)*