

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS Violin RSH plus 80W-90**

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

SRS Violin RSH plus 80W-90

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

Industrial uses

**Uses advised against**

No information available.

**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**

EUH208 Contains Polysulfides, di-tert-Bu (Polymer), Polysulfides, di-tert-Bu. 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****Relevant ingredients**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
	Polysulfides, di-tert-Bu (Polymer)			1 - < 3 %
	273-103-3			

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	Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410		
68937-96-2	Polysulfides, di-tert-Bu		1 - < 3 %
	273-103-3	01-2119540515-43	
	Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410		
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified		1 - < 3 %
	265-157-1	649-467-00-8	01-2119484627-25
	Asp. Tox. 1; H304		
	Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates		0.5 - < 1 %
	947-129-7	01-2120759337-45	
	Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 2; H319 H400 H411		
	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)		0.5 - < 1 %
	931-384-6	01-2119493620-38	
	Acute Tox. 4, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H302 H319 H317 H411		
1213789-63-9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines		0.2 - < 0.3 %
	627-034-4	01-2119473797-19	
	Acute Tox. 4, Skin Corr. 1B, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H335 H373 H304 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		
	273-103-3	Polysulfides, di-tert-Bu (Polymer)	1 - < 3 %
	Skin Sens. 1B; H317: >= 6 - 100		
68937-96-2	273-103-3	Polysulfides, di-tert-Bu	1 - < 3 %
	oral: LD50 = >5000 mg/kg Skin Sens. 1B; H317: >= 6 - 100		
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	1 - < 3 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg		
	947-129-7	Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates	0.5 - < 1 %
	oral: LD50 = > 2000 mg/kg Aquatic Acute 1; H400: M=10		
	931-384-6	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)	0.5 - < 1 %
	oral: LD50 = > 2000 mg/kg Eye Irrit. 2; H319: >= 50 - 100 Skin Sens. 1; H317: >= 9,39 - 100		
1213789-63-9	627-034-4	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	0.2 - < 0.3 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1200 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10		

## 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).

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**After inhalation**

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

**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.

**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 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.

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**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).

**For cleaning up**

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

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

**Advice on general occupational hygiene**

Clean skin thoroughly after working.

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

Contaminated work clothing should not be allowed out of the workplace.

Wash contaminated clothing before reuse.

**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****DNEL/DMEL values**

CAS No	Name of agent	Exposure route	Effect	Value
	Polysulfides, di-tert-Bu (Polymer)			
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified			
Worker DNEL, long-term		inhalation	systemic	2,73 mg/m <sup>3</sup>



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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
Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates			
Worker DNEL, long-term	inhalation	systemic	3,72 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	1,04 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1,1 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	0,625 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,625 mg/kg bw/day
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)			
Worker DNEL, long-term	inhalation	systemic	4,28 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	12,5 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1,09 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	6,25 mg/kg bw/day
Consumer DNEL, acute	dermal	local	0.024 mg/cm <sup>2</sup>
Consumer DNEL, long-term	oral	systemic	0,25 mg/kg bw/day
1213789-63-9 (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines			
Worker DNEL, long-term	inhalation	systemic	0,38 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	1 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	local	1 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	systemic	0,035 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic	0,04 mg/kg bw/day

#### PNEC values

CAS No	Name of agent	Value
68937-96-2	Polysulfides, di-tert-Bu	
	Freshwater	0,000255 mg/l
	Marine water	0,000255 mg/l
	Freshwater sediment	1,06 mg/kg
	Marine sediment	0,106 mg/kg
	Microorganisms in sewage treatment plants (STP)	45 mg/l
	Soil	0,211 mg/kg
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	
	Secondary poisoning	9,33 mg/kg

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Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates	
Freshwater	0 mg/l
Freshwater (intermittent releases)	0 mg/l
Marine water	0 mg/l
Freshwater sediment	0,001 mg/kg
Marine sediment	0 mg/kg
Secondary poisoning	5 mg/kg
Microorganisms in sewage treatment plants (STP)	1 mg/l
Soil	0 mg/kg
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)	
Freshwater	0,0024 mg/l
Freshwater (intermittent releases)	0,15 mg/l
Marine water	0,00024 mg/l
Freshwater sediment	0,0129 mg/kg
Marine sediment	0,00129 mg/kg
Secondary poisoning	10 mg/kg
Microorganisms in sewage treatment plants (STP)	24,33 mg/l
Soil	0,00117 mg/kg
1213789-63-9 (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	
Freshwater	0,00026 mg/l
Freshwater (intermittent releases)	0,0016 mg/l
Marine water	0,000026 mg/l
Freshwater sediment	3,76 mg/kg
Marine sediment	0,376 mg/kg
Microorganisms in sewage treatment plants (STP)	0,55 mg/l
Soil	10 mg/kg

#### Additional advice on limit values

Air limit values:

Possibility of exposure to Aerosol (Mineral oil )

Limit value (TLV-TWA ) = 5 mg/ m3 - Source: ACGIH

Limit value (TLV-STEL ) = 10 mg/ m3 - Source: ACGIH

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

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**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.

**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
Odour:	characteristic

**Test method**

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.
Upper explosion limits:	No information available.
Flash point:	212 °C COC
Auto-ignition temperature:	No information available.
Decomposition temperature:	No information available.
pH-Value:	No information available.
Viscosity / kinematic: (at 40 °C)	126 mm <sup>2</sup> /s DIN EN ISO 3104
Water solubility:	No information available.
Solubility in other solvents No information available.	
Partition coefficient n-octanol/water:	No information available.
Vapour pressure: (at 20 °C)	No information available.

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Vapour pressure: (at 50 °C)	No information available.
Density (at 15 °C):	0,8796 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

Sustained combustibility:

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:

-36 °C ISO 3016

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.

**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.

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**ATEmix calculated**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
68937-96-2	Polysulfides, di-tert-Bu				
	oral	LD50 >5000 mg/kg	Rat	ECHA Dossier	EPA OPP 81-1
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified				
	oral	LD50 >5000 mg/kg	Rat	ECHA Dossier	OECD 401
	dermal	LD50 >2000 mg/kg	Rabbit	ECHA Dossier	OECD 402
	Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates				
	oral	LD50 > 2000 mg/kg	Rat	ECHA Dossier	OECD Guideline 420
	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)				
	oral	LD50 > 2000 mg/kg	Rat	ECHA Dossier	OECD Guideline 401
1213789-63-9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines				
	oral	LD50 1200 mg/kg	Rat	REACH Dossier	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	REACH Dossier	OECD Guideline 402

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

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

Contains Polysulfides, di-tert-Bu (Polymer), Polysulfides, di-tert-Bu. May produce an allergic reaction.

May cause sensitisation especially in sensitive humans.

**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.

Polysulfides, di-tert-Bu:

In vitro mutagenicity/genotoxicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative Literature information: REACH Dossier; Reproductive toxicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test); Result: NOAEL = 150 mg/kg; Literature information: REACH Dossier; Developmental toxicity/teratogenicity: Species: Rat; Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Result: NOAEC >= 195 ppm; Literature information: REACH Dossier

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified:

In vitro mutagenicity/genotoxicity Method: OECD Guideline 473 (In Vitro Mammalian Chromosomal Aberration Test); Result: negative Literature information: REACH Dossier; Carcinogenicity: Method: OECD Guideline 453 (Combined Chronic Toxicity/Carcinogenicity Studies); Species: Mouse.; Results:

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Non-carcinogenic if DMSO extract as measured by IP346 is less than 3% m/m. Literature information: REACH Dossier; Reproductive toxicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test); Results: NOAEL > 1000 mg/kg Literature information: REACH Dossier; Developmental toxicity/teratogenicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Results: NOAEL >= 2000 mg/kg Literature information: REACH Dossier

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines:

In vitro mutagenicity/genotoxicity:

-OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Result: negative (REACD ACROSS)

Literature information: REACH Dossier

Reproductive toxicity:

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

Species: Rat; Results: NOAEL = 12,5 0 mg/kg (F1)

Literature information: REACH Dossier

Developmental toxicity/teratogenicity:

Species: Rabbit

Results: NOAEL > 30 mg/kg (fetus)

Literature information: REACH Dossier

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched):

In vitro mutagenicity/genotoxicity: Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test); Result: negative Literature information: REACH Dossier; Reproductive toxicity: Species: Rat

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

NOAEL = 150 mg/kg Literature information: REACH Dossier; Developmental toxicity/teratogenicity: Species:

Rat (Wistar); Method: other guideline: Reproduction/developmental screening test. Result: NOAEL = 150

mg/kg; Literature information: REACH Dossier

Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates:

In-vitro mutagenicity:

Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay)

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

Method: OECD Guideline 490 (In Vitro Mammalian Cell Gene Mutation Tests Using the Thymidine Kinase Gene)

Result: negative

**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.

Polysulfides, di-tert-Bu:

Subacute oral toxicity:

Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Species: Rat

Results: NOAEL = 100 mg/kg; Literature information: REACH Dossier

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified:

Subacute inhalative toxicity: Method: -; Exposure time: 28d; Species: Rat; Results: NOAEL >980 mg/m<sup>3</sup>;

Literature information: REACH Dossier; Subacute dermal toxicity: Method: OECD Guideline 410 (Repeated

Dose Dermal Toxicity: 21/28-day Study); Exposure time: 28d; Species: Rabbit; Results: 1000 mg/kg;

Literature information: REACH Dossier

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines:

Subacute oral toxicity:

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Method: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Species: Sprague-Dawley Rat

Results: NOAEL = 3,25 mg/kg

Subacute dermal toxicity:

Method: -, 14 d

Species: Sprague-Dawley Rat

Results: LOAEL = 12,5 mg/kg

Literature information: REACH Dossier

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched):

Subacute oral toxicity: Method: -; Species: Rat; Results: NOAEL = 150 mg/kg; Literature information: REACH Dossier

Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates:

Subacute oral toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction /Developmental Toxicity Screening Test); Species: Rat (Wistar Han); Results: NOAEL >= 75 mg/kg; Literature information: REACH Dossier

#### Aspiration hazard

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

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

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

This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

##### Other information

Frequently or prolonged contact with skin may cause dermal irritation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

If this product contains Polysulfide, Di-tert-butyl (EC No. 273-103-3), this product is not to be classified as dangerous for the environment (H411) . Raw materials containing this substance have not been classified by our suppliers as hazardous to the environment (H410) on the basis of test data, expert judgement or analogy assessments.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
	Polysulfides, di-tert-Bu (Polymer)					
	Acute algae toxicity	ErC50 > 100 (EL50) mg/l	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 63 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
68937-96-2	Polysulfides, di-tert-Bu					
	Acute algae toxicity	ErC50 > 100 (EL50) mg/l	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 0,255 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified					
	Crustacea toxicity	NOEC 10 mg/l	21 d	Daphnia magna (OECD 211)	ECHA Dossier	
	Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates					



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	Acute fish toxicity	LL50 mg/l	> 0,028	96 h	Oncorhynchus mykiss	ECHA Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	0,028	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EL50 mg/l	0,071	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
	Acute bacteria toxicity	EC50 mg/l ( )	> 100	3 h	activated sludge of a predominantly domestic sewage	ECHA Dossier	OECD Guideline 209
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)							
	Acute fish toxicity	LC50 mg/l	ca. 8,5	96 h	Oncorhynchus mykiss	ECHA Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	6,4 mg/l	96 h	Raphidocelis subcapitata	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EL50 mg/l	ca. 91,4	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
	Acute bacteria toxicity	EC50 mg/l ( )	ca. 2433	3 h	activated sludge, domestic	ECHA Dossier	OECD Guideline 209
1213789-63-9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines						
	Acute fish toxicity	LC50 mg/l	0,06	96 h	Pimephales promelas	REACH Dossier	EPA OPPTS 850.1085
	Acute algae toxicity	ErC50 mg/l	0,38	72 h	Desmodesmus subspicatus	REACH Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	0,98	48 h	Daphnia magna	REACH Dossier	OECD Guideline 202
	Crustacea toxicity	NOEC mg/l	0,013	21 d	Daphnia magna	REACH Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50 mg/l ( )	222,5	3 h	activated sludge	REACH Dossier	OECD Guideline 209

#### 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			
68937-96-2	Polysulfides, di-tert-Bu	QSAR	< 2,5%		ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).				
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	31%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).				
		OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	2-4%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).				
	Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates				

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	OECD Guideline 301 B	75%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)			
	ASTM D-5864-95	3,6%	28	ECHA Dossier
	not readily degradable			
1213789-63-9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines			
	OECD Guideline 301 D	66%	28	REACH Dossier
	Readily biodegradable (according to OECD criteria).			

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
68937-96-2	Polysulfides, di-tert-Bu	5,6
	Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates	4,61
	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)	< 0,3
1213789-63-9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	5,16

**BCF**

CAS No	Chemical name	BCF	Species	Source
68937-96-2	Polysulfides, di-tert-Bu	0,006	Lepomis macrochirus	ECHA Dossier
	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)	436	Onchorhynchus mykiss	ECHA Dossier
1213789-63-9	(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	173		Environmental Toxicology

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

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

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

**12.6. Endocrine disrupting properties**

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

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**

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**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)**

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

**Inland waterways transport (ADN)**

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

**Marine transport (IMDG)**

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

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

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

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Directive 2010/75/EU on industrial emissions:

No information available.

Directive 2004/42/EC on VOC in paints and varnishes:

No information available.

Information according to Directive 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)  
REACH 1907/2006 Appendix XVII, No (mixture): 3,75  
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 (EU) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals: not relevant

15.2 Chemical Safety Assessment  
not applicable.

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,4,6,7,11,12,14,15,16.

Rev. : 1,0 - 04.05.2023

Rev.: 1.1 - 01.02.2024, Changes in chapter: 1.4, 12.1, 16

Rev.: 2,0 - 03.02.2025, Changes in chapter: 16

Rev.: 2,1 - 27.06.2025, Changes in chapter: 1.1, 2.2, 3.2, 12.1, 15, 16

Rev.: 3,0 - 05.06.2026, Changes in chapter: 16

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**Abbreviations and acronyms**

Acute Tox. 4: Acute toxicity, hazard category 4  
Asp. Tox. 1: Aspiration hazard, hazard category 1  
Skin Corr. 1B: Skin corrosion, sub-category 1B  
Eye Irrit. 2: Eye irritation, hazard category 2  
Skin Sens. 1: Skin sensitisation, hazard category 1  
Skin Sens. 1B: Skin sensitisation, hazard category 1B  
STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3  
STOT RE 2: Specific target organ toxicity - repeated exposure, hazard category 2  
Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1  
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1  
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2  
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3  
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  
d: day(s)  
DNEL: Derived No Effect Level  
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
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  
NTP: National Toxicology Program  
N/A: not applicable  
OECD: Organisation for Economic Co-operation and Development  
PNEC: predicted no effect concentration  
PBT: Persistent bioaccumulative toxic  
PMT: Persistent, mobile and toxic  
REACH: Registration, Evaluation, Authorisation of Chemicals  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
SVHC: substance of very high concern  
TRGS: Technische Regeln für Gefahrstoffe  
UN: United Nations  
TSCA: Toxic Substances Control Act  
vPvM: very persistent and very mobile  
vPvB: very persistent and very bioaccumulative

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VOC: Volatile Organic Compounds  
WGK: Water Hazard Class (Germany)

**Key literature references and sources for data**

<https://echa.europa.eu/>  
<https://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp>  
<https://cfpub.epa.gov/ecotox/search.cfm>  
<http://www.inchem.org/#/search>  
<https://pubchem.ncbi.nlm.nih.gov/>  
<http://ccinfoweb.ccohs.ca/rtecs/search.html>  
<https://webrigoletto.uba.de/rigoletto/>

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

Classification	Classification procedure
Aquatic Chronic 3; H412	On basis of test data and / or calculated and / or estimated.

**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.  
H319 Causes serious eye irritation.  
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.  
H412 Harmful to aquatic life with long lasting effects.  
EUH208 Contains Polysulfides, di-tert-Bu (Polymer), Polysulfides, di-tert-Bu. 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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*