

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS Antikorrol M plus**

Revision date: 17.10.2023

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

SRS Antikorrol M plus

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

engine 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 Alkyl- (C18-C28)  
Toluenesulfonic acid,  
Calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts.  
May produce an allergic reaction.**2.3. Other hazards**

This mixture contains no substances of very high concern (SVHC) (&gt;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) |          |          |  |

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|              |                                                                                                          |                  |
|--------------|----------------------------------------------------------------------------------------------------------|------------------|
| 68784-31-6   | Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts                   | 1 - < 3 %        |
|              | 272-238-5                                                                                                | 01-2119657973-23 |
|              | Eye Dam. 1, Aquatic Chronic 2; H318 H411                                                                 |                  |
|              | Alkyl- (C18-C28)<br>Toluenesulfonic acid,<br>Calcium salts, borated                                      | 1 - < 3 %        |
|              | 953-650-0                                                                                                |                  |
|              | Repr. 2, Skin Sens. 1B; H361d H317                                                                       |                  |
| 722503-68-6  | Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts                         | 0.5 - < 1 %      |
|              | 682-816-2                                                                                                |                  |
|              | Skin Sens. 1B; H317                                                                                      |                  |
| 1218787-32-6 | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol                                      | 0.2 - < 0.3 %    |
|              | 620-540-6                                                                                                | 01-2119510877-33 |
|              | Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318<br>H400 H410 |                  |
| 27859-58-1   | (tetrapropenyl)succinic acid                                                                             | 0.2 - < 0.3 %    |
|              | 248-698-8                                                                                                | 01-2120752504-57 |
|              | Repr. 2, Skin Irrit. 2, Eye Dam. 1, STOT RE 2; H361 H315 H318 H373                                       |                  |

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                                               |               |
| 68784-31-6   | 272-238-5 | Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts | 1 - < 3 %     |
|              |           | dermal: LD50 = >5000 mg/kg; oral: LD50 = >2000 mg/kg                                   |               |
|              | 953-650-0 | Alkyl- (C18-C28)<br>Toluenesulfonic acid,<br>Calcium salts, borated                    | 1 - < 3 %     |
|              |           | Repr. 2; H361d: >= 17,15 - 100 Skin Sens. 1B; H317: >= 2 - 100                         |               |
| 722503-68-6  | 682-816-2 | Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts       | 0.5 - < 1 %   |
|              |           | Skin Sens. 1B; H317: >= 2 - 100                                                        |               |
| 1218787-32-6 | 620-540-6 | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol                    | 0.2 - < 0.3 % |
|              |           | oral: LD50 = 1200 mg/kg Aquatic Acute 1; H400: M=10                                    |               |
| 27859-58-1   | 248-698-8 | (tetrapropenyl)succinic acid                                                           | 0.2 - < 0.3 % |
|              |           | oral: LD50 = 2100 mg/kg                                                                |               |

## 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,



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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 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

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**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.

**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                   |
|--------------------------|----------------------------------------------------------------------------------------|----------------|----------|-------------------------|
| 68784-31-6               | Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts |                |          |                         |
| Worker DNEL, long-term   |                                                                                        | inhalation     | systemic | 2.93 mg/m <sup>3</sup>  |
| Worker DNEL, acute       |                                                                                        | inhalation     | systemic | 496.4 mg/m <sup>3</sup> |
| Worker DNEL, long-term   |                                                                                        | dermal         | systemic | 10.42 mg/kg bw/day      |
| Worker DNEL, acute       |                                                                                        | dermal         | systemic | 100 mg/kg bw/day        |
| Consumer DNEL, long-term |                                                                                        | inhalation     | systemic | 11.75 mg/m <sup>3</sup> |
| Consumer DNEL, acute     |                                                                                        | inhalation     | systemic | 198.6 mg/m <sup>3</sup> |
| Consumer DNEL, long-term |                                                                                        | dermal         | systemic | 2.1 mg/kg bw/day        |
| Consumer DNEL, acute     |                                                                                        | dermal         | systemic | 50 mg/kg bw/day         |
| Consumer DNEL, long-term |                                                                                        | oral           | systemic | 0.21 mg/kg bw/day       |
| Consumer DNEL, acute     |                                                                                        | oral           | systemic | 29 mg/kg bw/day         |
| 1218787-32-6             | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol                    |                |          |                         |



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|--------------------------|------------------------------|----------|-------------------------|
| 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>  |
| 27859-58-1               | (tetrapropenyl)succinic acid |          |                         |
| Worker DNEL, long-term   | inhalation                   | systemic | 1,2 mg/m <sup>3</sup>   |
| Worker DNEL, long-term   | dermal                       | systemic | 0,7 mg/kg bw/day        |
| Consumer DNEL, long-term | inhalation                   | systemic | 0,3 mg/m <sup>3</sup>   |
| Consumer DNEL, long-term | dermal                       | systemic | 0,3 mg/kg bw/day        |
| Consumer DNEL, long-term | oral                         | systemic | 0,2 mg/kg bw/day        |

#### PNEC values

| CAS No       | Name of agent                                                                          | Value         |
|--------------|----------------------------------------------------------------------------------------|---------------|
| 68784-31-6   | Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts |               |
|              | Freshwater                                                                             | 0,04 mg/l     |
|              | Marine water                                                                           | 0,0046 mg/l   |
|              | Freshwater sediment                                                                    | 0,07 mg/kg    |
|              | Marine sediment                                                                        | 0,007 mg/kg   |
|              | Secondary poisoning                                                                    | 8,33 mg/kg    |
|              | Micro-organisms in sewage treatment plants (STP)                                       | 3,8 mg/l      |
|              | Soil                                                                                   | 0,055 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       |
| 27859-58-1   | (tetrapropenyl)succinic acid                                                           |               |
|              | Freshwater                                                                             | 0,1 mg/l      |
|              | Freshwater (intermittent releases)                                                     | 1 mg/l        |
|              | Marine water                                                                           | 0,01 mg/l     |
|              | Freshwater sediment                                                                    | 62,1 mg/kg    |
|              | Marine sediment                                                                        | 6,21 mg/kg    |
|              | Secondary poisoning                                                                    | 3,33 mg/kg    |
|              | Micro-organisms in sewage treatment plants (STP)                                       | 100 mg/l      |
|              | Soil                                                                                   | 12,4 mg/kg    |

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#### 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: ACGIH

Limit value (TLV-STEL ) = 10 mg/ m<sup>3</sup> - 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

##### 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:

Colour:

clear

Odour:

characteristic

Test method

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|                                                           |                                         |
|-----------------------------------------------------------|-----------------------------------------|
| 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:                                              | 244 °C                                  |
| Auto-ignition temperature:                                | No information available.               |
| Decomposition temperature:                                | No information available.               |
| pH-Value:                                                 | No information available.               |
| Viscosity / kinematic:<br>(at 40 °C)                      | 99,9 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:<br>(at 20 °C)                            | No information available.               |
| Vapour pressure:<br>(at 50 °C)                            | No information available.               |
| Density (at 15 °C):                                       | 0,892 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:

-30 °C ASTM D 5985

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**

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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.

##### 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             |
| 68784-31-6   | Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts |                  |         |              |                    |
|              | oral                                                                                   | LD50 >2000 mg/kg | Rat.    | ECHA Dossier | OECD Guideline 401 |
|              | dermal                                                                                 | LD50 >5000 mg/kg | Rabbit  | ECHA Dossier | OECD Guideline 402 |
| 1218787-32-6 | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol                    |                  |         |              |                    |
|              | oral                                                                                   | LD50 1200 mg/kg  | Rat     | ECHA Dossier | OECD Guideline 425 |
| 27859-58-1   | (tetrapropenyl)succinic acid                                                           |                  |         |              |                    |
|              | oral                                                                                   | LD50 2100 mg/kg  | Rat     | ECHA Dossier | OECD Guideline 401 |

##### Irritation and corrosivity

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

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts:

Irritant effect on the eye: Not an irritant. By analogy. Raw material classification

##### Sensitising effects

Contains Alkyl- (C18-C28)

Toluenesulfonic acid,

Calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts.

May produce an allergic reaction.

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

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

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts:

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

Species: Rat; Exposure duration: 28 d; Results: NOAEL = 125mg/kg; Literature information: REACH Dossier

##### STOT-single exposure

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



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#### STOT-repeated exposure

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

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative. ;

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

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

| CAS No       | Chemical name                                                                          |                   |           |         |                                                     |                                    |
|--------------|----------------------------------------------------------------------------------------|-------------------|-----------|---------|-----------------------------------------------------|------------------------------------|
|              | Aquatic toxicity                                                                       | Dose              | [h]   [d] | Species | Source                                              | Method                             |
| 68784-31-6   | Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts |                   |           |         |                                                     |                                    |
|              | Acute fish toxicity                                                                    | LC50<br>4,4 mg/l  | LL50 =    | 96 h    | Oncorhynchus mykiss                                 | ECHA Dossier<br>OECD Guideline 203 |
|              | Acute algae toxicity                                                                   | ErC50<br>410 mg/l | EL50 =    | 72 h    | Desmodesmus subspicatus                             | ECHA Dossier<br>OECD Guideline 201 |
|              | Acute crustacea toxicity                                                               | EC50<br>75 mg/l   | EL50 =    | 48 h    | Daphnia magna                                       | ECHA Dossier<br>OECD Guideline 202 |
|              | Crustacea toxicity                                                                     | NOEC              | 0,4 mg/l  | 21 d    | Daphnia magna                                       | ECHA Dossier<br>OECD Guideline 211 |
| 1218787-32-6 | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol                    |                   |           |         |                                                     |                                    |
|              | Acute fish toxicity                                                                    | LC50<br>0,6 mg/l  |           | 96 h    | Danio rerio                                         | ECHA Dossier<br>READ ACROSS        |
|              | Acute algae toxicity                                                                   | ErC50<br>mg/l     | 0,0867    | 72 h    | Pseudokirchneriella subcapitata                     | ECHA Dossier<br>READ ACROSS        |
|              | Crustacea toxicity                                                                     | NOEC<br>mg/l      | 0,32      | 21 d    | Daphnia magna                                       | ECHA Dossier<br>READ ACROSS        |
|              | Acute bacteria toxicity                                                                | (EC50<br>mg/l)    | 167       | 3 h     | activated sludge of a predominantly domestic sewage | ECHA Dossier<br>READ ACROSS        |
| 27859-58-1   | (tetrapropenyl)succinic acid                                                           |                   |           |         |                                                     |                                    |
|              | Acute fish toxicity                                                                    | LC50<br>mg/l      | > 100     | 96 h    | Oncorhynchus mykiss                                 | ECHA Dossier<br>OECD Guideline 203 |
|              | Acute algae toxicity                                                                   | ErC50             | 100 mg/l  | 96 h    | Pseudokirchneriella subcapitata                     | ECHA Dossier<br>OECD Guideline 201 |
|              | Acute crustacea toxicity                                                               | EC50<br>mg/l      | > 100     | 48 h    | Daphnia magna                                       | ECHA Dossier<br>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.

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| CAS No       | Chemical name                                                                          |        |    |              |
|--------------|----------------------------------------------------------------------------------------|--------|----|--------------|
|              | Method                                                                                 | Value  | d  | Source       |
|              | Evaluation                                                                             |        |    |              |
| 68784-31-6   | Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts |        |    |              |
|              | EU Method C.6                                                                          | < 5%   | 27 | ECHA Dossier |
|              | 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 |
|              | Not easily bio-degradable (according to OECD-criteria).                                |        |    |              |
| 27859-58-1   | (tetrapropenyl)succinic acid                                                           |        |    |              |
|              | OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D                                        | 18,3 % | 28 | ECHA Dossier |
|              | Not easily bio-degradable (according to OECD-criteria).                                |        |    |              |

#### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### Partition coefficient n-octanol/water

| CAS No       | Chemical name                                                       | Log Pow  |
|--------------|---------------------------------------------------------------------|----------|
| 1218787-32-6 | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | 3,6      |
| 27859-58-1   | (tetrapropenyl)succinic acid                                        | >= 3,286 |

#### BCF

| CAS No       | Chemical name                                                       | BCF   | Species | Source             |
|--------------|---------------------------------------------------------------------|-------|---------|--------------------|
| 1218787-32-6 | 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | 110,2 |         | QSAR result (2010) |

#### 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

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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 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)

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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 of dangerous chemicals: not relevant

15.2 Chemical Safety Assessment  
not applicable.

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

fRev. : 1,0 - 04.05.2015

Rev. : 1,1 - 06.05.2016

Rev.: 2,0 - 15.06.2017

Rev. : 3,0 - 29.06.2018

Rev.: 4,0 - 28.06.2019

Rev. : 5,0 - 29.06.2020; Changes in chapter: 16

Rev.: 6,0 - 17.06.2021; Changes in chapter: 3.2, 6.1, 6.3, 11.2, 12.6, 12.7, 15.1, 16

Rev.: 6,1 - 06.09.2021; Changes in chapter: 2.2, 3.2, 11.1,12.1, 16

Rev.: 6,2 - 29.07.2022, Changes in chapter: 2.2, 2.3, 3.2, 8.2, 12.5, 12.6, 15.1, 16

Rev.: 7,0 - 01.07.2023, Changes in chapter: 2.2, 9.1, 12.5, 12.7, 16

Rev.: 7,1 - 17.10.2023, Changes in chapter: 3.2, 8.1, 9.1, 11.1, 11.2, 12.1, 12.2, 12.3, 15.1, 16

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**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

WGK: Water Hazard Class (Germany)

Acute Tox: Acute toxicity

Skin Corr: Skin corrosion

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Skin Sens: Skin sensitisation

Repr: Reproductive toxicity

STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

**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.

H314 Causes severe skin burns and eye damage.

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|                                                                                                           |                                                                    |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| H315                                                                                                      | Causes skin irritation.                                            |
| H317                                                                                                      | May cause an allergic skin reaction.                               |
| H318                                                                                                      | Causes serious eye damage.                                         |
| H361                                                                                                      | Suspected of damaging fertility or the unborn child.               |
| H361d                                                                                                     | Suspected of damaging the unborn child.                            |
| 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 Alkyl- (C18-C28)                                          |
| Toluenesulfonic acid,                                                                                     |                                                                    |
| Calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. |                                                                    |
| 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.)*