

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS ViVA 1 ecosynth**

Revision date: 02.03.2023

Product code:

Page 1 of 15

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

SRS ViVA 1 ecosynth

**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**

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

**2.2. Label elements****Regulation (EC) No 1272/2008****Special labelling of certain mixtures**

EUH208 Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction.  
EUH210 Safety data sheet available on request.

**2.3. Other hazards**

Endocrine disrupting properties: phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched.

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

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

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched: This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.

**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)                                 |              |                  |             |
| 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified |              |                  | 35 - < 40 % |
|            | 265-157-1   | 649-467-00-8 | 01-2119484627-25 |             |

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS ViVA 1 ecosynth

Revision date: 02.03.2023

Product code:

Page 2 of 15

|             |  |                  |                  |
|-------------|--|------------------|------------------|
|             | Asp. Tox. 1; H304  |                  |                  |
| 68037-01-4  | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated  |                  | 35 - < 40 %      |
|             | 500-183-1  | 01-2119486452-34 |                  |
|             | Asp. Tox. 1; H304  |                  |                  |
| 64741-88-4  | Highly refined mineral oil (C15-C50)*  |                  | 15 - < 20 %      |
|             | Asp. Tox. 1; H304  |                  |                  |
| 68784-26-9  | Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased   |                  | 1 - < 3 %        |
|             | 701-251-5  | 01-2119524004-56 |                  |
|             | Aquatic Chronic 4; H413  |                  |                  |
| 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   |                  |                  |
| 722503-68-6 | Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts                                     |                  | 0.5 - < 1 %      |
|             | 682-816-2  |                  |                  |
|             | Skin Sens. 1B; H317  |                  |                  |
| 121158-58-5 | phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched |                  | 0.1 - < 0.2 %    |
|             | 310-154-3  | 604-092-00-9     | 01-2119513207-49 |
|             | Repr. 1B, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H360F H314 H318 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   |               |
| 64742-54-7  | 265-157-1 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified  | 35 - < 40 %   |
|             |           | dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg   |               |
| 68037-01-4  | 500-183-1 | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated  | 35 - < 40 %   |
|             |           | inhalation: LC50 = >5,2 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg                  |               |
| 68784-26-9  | 701-251-5 | Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased   | 1 - < 3 %     |
|             |           | dermal: LD50 = > 4000 mg/kg; oral: LD50 = > 5000 mg/kg   |               |
| 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   |               |
| 121158-58-5 | 310-154-3 | phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched | 0.1 - < 0.2 % |
|             |           | dermal: LD50 = 15000 mg/kg; oral: LD50 = 2100 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10        |               |

#### 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).

### 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).



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS ViVA 1 ecosynth

Revision date: 02.03.2023

Product code:

Page 3 of 15

#### 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 Carbon dioxide (CO<sub>2</sub>) Sulphur dioxide (SO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>) Phosphorus oxides

#### **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.

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS ViVA 1 ecosynth**

Revision date: 02.03.2023

Product code:

Page 4 of 15

**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

**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 solids. Oxidizing liquids. 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                   |
|----------------------|--|----------------|----------|-------------------------|
| 68784-26-9           | Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased |                |          |                         |
| Worker DNEL, acute   |  | inhalation     | systemic | 133,6 mg/m <sup>3</sup> |
| Consumer DNEL, acute |  | dermal         | systemic | 40 mg/kg bw/day         |
| Worker DNEL, acute   |  | dermal         | systemic | 80 mg/kg bw/day         |
| Consumer DNEL, acute |  | oral           | systemic | 50 mg/kg bw/day         |



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## SRS VIVA 1 ecosynth

Revision date: 02.03.2023

Product code:

Page 5 of 15

|                          |  |          |                         |
|--------------------------|--|----------|-------------------------|
| Consumer DNEL, long-term | oral   | systemic | 0,25 mg/kg bw/day       |
| Consumer DNEL, long-term | inhalation   | systemic | 0,87 mg/m <sup>3</sup>  |
| Worker DNEL, long-term   | inhalation   | systemic | 3,5 mg/m <sup>3</sup>   |
| Worker DNEL, long-term   | dermal   | systemic | 0,5 mg/kg bw/day        |
| Consumer DNEL, acute     | inhalation   | systemic | 0,067 mg/m <sup>3</sup> |
| 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         |
| 121158-58-5              | phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched |          |                         |
| Worker DNEL, acute       | inhalation   | systemic | 44,18 mg/m <sup>3</sup> |
| Worker DNEL, acute       | dermal   | systemic | 166 mg/kg bw/day        |
| Consumer DNEL, acute     | inhalation   | systemic | 13,26 mg/m <sup>3</sup> |
| Consumer DNEL, acute     | dermal   | systemic | 50 mg/kg bw/day         |
| Consumer DNEL, acute     | oral   | systemic | 1,26 mg/kg bw/day       |
| Worker DNEL, long-term   | inhalation   | systemic | 1.762 mg/m <sup>3</sup> |
| Worker DNEL, long-term   | dermal   | systemic | 0,25 mg/kg bw/day       |
| Consumer DNEL, long-term | inhalation   | systemic | 0,79 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term | dermal   | systemic | 0,075 mg/kg bw/day      |
| Consumer DNEL, long-term | oral   | systemic | 0,075 mg/kg bw/day      |

## PNEC values

| CAS No     | Name of agent   | Value       |
|------------|---|-------------|
| 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified |             |
|            | Secondary poisoning   | 9,33 mg/kg  |
| 68784-26-9 | Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased            |             |
|            | Freshwater  | 0,5 mg/l    |
|            | Freshwater (intermittent releases)  | 5 mg/l      |
|            | Marine water  | 0,04 mg/l   |
|            | Freshwater sediment   | 43500 mg/kg |
|            | Marine sediment   | 3480 mg/kg  |

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS ViVA 1 ecosynth

Revision date: 02.03.2023

Product code:

Page 6 of 15

|  |  |
|--|--|
| Secondary poisoning                              | 13,333 mg/kg   |
| Micro-organisms in sewage treatment plants (STP) | 100 mg/l   |
| Soil   | 8850 mg/kg   |
| 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  |
| 121158-58-5                                      | phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched |
| Freshwater                                       | 0,000074 mg/l  |
| Freshwater (intermittent releases)               | 0,00037 mg/l   |
| Marine water                                     | 0,000007 mg/l  |
| Freshwater sediment                              | 0,226 mg/kg  |
| Marine sediment                                  | 0,027 mg/kg  |
| Secondary poisoning                              | 4 mg/kg  |
| Micro-organisms in sewage treatment plants (STP) | 100 mg/l   |
| Soil   | 0,118 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

##### 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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS ViVA 1 ecosynth**

Revision date: 02.03.2023

Product code:

Page 7 of 15

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.

**Thermal hazards**

Wear protective clothing for operations with hot material: heat resistant coveralls (with trousers legs over boots and sleeves over cuffs of gloves), heat resistant heavy duty antiskid boots (e. g. leather).

**Environmental exposure controls**

No information available.

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

|                 |                |
|-----------------|----------------|
| Physical state: | liquidxxxxx    |
| 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. DIN 51649      |
| Upper explosion limits:                                   | No information available. DIN 51649      |
| Flash point:  | 240 °C COC                               |
| Auto-ignition temperature:                                | No information available.                |
| Decomposition temperature:                                | No information available.                |
| pH-Value:   | No information available.                |
| Viscosity / kinematic:<br>(at 40 °C)                      | 81,62 mm <sup>2</sup> /s DIN EN ISO 3104 |
| Water solubility:   | Immiscible                               |
| Solubility in other solvents                              |  |
| 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):                                       | 0,845 g/cm <sup>3</sup> DIN 51757        |
| Bulk density:   | No information available.                |
| Relative vapour density:                                  | No information available.                |

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS ViVA 1 ecosynth**

Revision date: 02.03.2023

Product code:

Page 8 of 15

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:

-48 °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 product 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.

| CAS No     | Chemical name   |               |         |        |                          |
|------------|---|---------------|---------|--------|--------------------------|
|            | Exposure route  | Dose          | Species | Source | Method                   |
| 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified |               |         |        |                          |
|            | oral  | LD50<br>mg/kg | >5000   | Rat    | ECHA Dossier<br>OECD 401 |



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS ViVA 1 ecosynth

Revision date: 02.03.2023

Product code:

Page 9 of 15

|             |  |               |           |        |              |                    |
|-------------|--|---------------|-----------|--------|--------------|--------------------|
|             | dermal   | LD50<br>mg/kg | >2000     | Rabbit | ECHA Dossier | OECD 402           |
| 68037-01-4  | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated  |               |           |        |              |                    |
|             | oral   | LD50<br>mg/kg | >5000     | Rat.   | ECHA Dossier |                    |
|             | dermal   | LD50<br>mg/kg | >2000     | Rat.   | ECHA Dossier |                    |
|             | inhalation (4 h)<br>dust/mist  | LC50          | >5,2 mg/l | Rat.   | ECHA Dossier | OECD 403           |
| 68784-26-9  | Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased   |               |           |        |              |                    |
|             | oral   | LD50<br>mg/kg | > 5000    | Rat    | ECHA Dossier | OECD Guideline 401 |
|             | dermal   | LD50<br>mg/kg | > 4000    | Rabbit | ECHA Dossier | OECD Guideline 402 |
| 68784-31-6  | Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts                               |               |           |        |              |                    |
|             | oral   | LD50<br>mg/kg | >2000     | Rat.   | ECHA Dossier | OECD Guideline 401 |
|             | dermal   | LD50<br>mg/kg | >5000     | Rabbit | ECHA Dossier | OECD Guideline 402 |
| 121158-58-5 | phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched |               |           |        |              |                    |
|             | oral   | LD50<br>mg/kg | 2100      | Rat    | ECHA Dossier | OECD 401           |
|             | dermal   | LD50<br>mg/kg | 15000     | Rabbit | ECHA Dossier | OECD 402           |

#### 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 Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction.

May cause sensitisation especially in sensitive humans.

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

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

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

In vitro mutagenicity/genotoxicity Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test); Result: negative. Literature information: ECHA Dossier; Carcinogenicity: Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies); Species: Mouse.; Results: Non-carcinogenic if DMSO extract as measured by IP346 is less than 3% m/m. Literature information: ECHA Dossier; Reproductive toxicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test); Results: NOAEL > 1000 mg/kg Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Results: NOAEL >= 2000 mg/kg Literature information: ECHA Dossier

Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated:

In vitro mutagenicity/genotoxicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative. Literature information: ECHA Dossier; Reproductive toxicity: Species: Rat; Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test); Result: NOAEL > 1000 mg/kg; Literature information: ECHA Dossier

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased:

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS ViVA 1 ecosynth

Revision date: 02.03.2023

Product code:

Page 10 of 15

Reproductive toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test); Species: Rat; Result: NOAEL = 200 mg/kg; Literature information: ECHA Dossier; Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay), OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test); Result: negative. ; Literature information: ECHA Dossier; Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study). Species: Rat.; Result: NOAEL = 50 mg/kg. Literature information: ECHA Dossier

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: ECHA Dossier

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched:

In vitro mutagenicity/genotoxicity: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test), OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative. Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Species: Rat ; Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Result: NOAEL 100 mg/kg; Literature information: ECHA Dossier; Reproductive toxicity: Species: Sprague-Dawley Rat; Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study); Result: NOAEL 15 mg/kg; 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.

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: ECHA 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: ECHA Dossier

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased:

Subacute oral toxicity: Method: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study); Species: Dog.; Exposure duration: 28 d. Results: NOAEL >250 mg/kg(bw)/day ; Literature information: ECHA Dossier

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: ECHA Dossier

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched:

Subchronic oral toxicity: Exposure time: 90d. Method: OECD Guideline 408 ; Species: Rat; Results: NOAEL = 100 mg/kg. Subacute oral toxicity: Exposure time: 28d. Method: OECD Guideline 407 ; Species: Rat ; Results: NOAEL = 60 mg/kg. 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

Endocrine disrupting properties: phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched.

No information available.

##### Other information

Frequent contact specially if dried out may cause skin and eye irritations.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS ViVA 1 ecosynth

Revision date: 02.03.2023

Product code:

Page 11 of 15

## SECTION 12: Ecological information

### 12.1. Toxicity

If this product contains phenol, dodecyl, branched (EC No. 310-154-3), this product is not to be classified as dangerous for the environment. Raw materials containing this substance have not been classified by our suppliers as hazardous to the environment on the basis of test data, expert judgement or analogy assessments.

| CAS No      | Chemical name  |                   |           |                                 |                     |                    |
|-------------|--|-------------------|-----------|---------------------------------|---------------------|--------------------|
|             | Aquatic toxicity   | Dose              | [h]   [d] | Species                         | Source              | Method             |
| 64742-54-7  | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified  |                   |           |                                 |                     |                    |
|             | Crustacea toxicity   | NOEC 10 mg/l      | 21 d      | Daphnia magna (OECD 211)        | ECHA Dossier        |                    |
| 68037-01-4  | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated  |                   |           |                                 |                     |                    |
|             | Acute fish toxicity  | LL50 >1000 mg/l   | 96 h      | Pimephales promelas             | ECHA Dossier        | USEPA (1975)       |
|             | Acute crustacea toxicity   | EL50 >1000 mg/l   | 48 h      | Daphnia magna                   | ECHA Dossier        | OECD Guideline 202 |
|             | Crustacea toxicity   | NOEC 125 mg/l     | 21 d      | Daphnia magna                   | ECHA Dossier        | OECD Guideline 211 |
| 68784-26-9  | Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased   |                   |           |                                 |                     |                    |
|             | Acute fish toxicity  | LC50 >1000 mg/l   | 96 h      | Pimephales promelas             | ECHA Dossier        | OECD Guideline 203 |
|             | Acute algae toxicity   | ErC50 > 500 mg/l  | 96 h      | Pseudokirchneriella subcapitata | Study report (1994) | OECD Guideline 201 |
|             | Acute crustacea toxicity   | EC50 > 1000 mg/l  | 48 h      | Daphnia magna                   | Study report (1993) | OECD Guideline 202 |
| 68784-31-6  | Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts                               |                   |           |                                 |                     |                    |
|             | Acute fish toxicity  | LC50 4,4 mg/l     | 96 h      | Oncorhynchus mykiss             | ECHA Dossier        | OECD Guideline 203 |
|             | Acute algae toxicity   | ErC50 410 mg/l    | 72 h      | Desmodesmus subspicatus         | ECHA Dossier        | OECD Guideline 201 |
|             | Acute crustacea toxicity   | EC50 75 mg/l      | 48 h      | Daphnia magna                   | ECHA Dossier        | OECD Guideline 202 |
|             | Crustacea toxicity   | NOEC 0,4 mg/l     | 21 d      | Daphnia magna                   | ECHA Dossier        | OECD Guideline 211 |
| 121158-58-5 | phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched |                   |           |                                 |                     |                    |
|             | Acute fish toxicity  | LC50 40 mg/l      | 96 h      | Pimephales promelas             | ECHA Dossier        |                    |
|             | Acute algae toxicity   | ErC50 (0,36) mg/l | 72 h      | Desmodesmus subspicatus         | ECHA Dossier        |                    |
|             | Crustacea toxicity   | NOEC 0,0037 mg/l  | 21 d      | daphnia magna                   | ECHA Dossier        | OECD 211           |

### 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  |       |    |              |  |
| 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified |       |    |              |  |
|            | OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D                               | 31%   | 28 | ECHA Dossier |  |

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### SRS ViVA 1 ecosynth

Revision date: 02.03.2023

Product code:

Page 12 of 15

|             |  |        |    |              |
|-------------|--|--------|----|--------------|
|             | OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C  | 2-4%   | 28 | ECHA Dossier |
| 68037-01-4  | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated  |        |    |              |
|             | OECD 301D / EEC 92/69 annex V, C.4-E   | 2 %    | 28 | ECHA Dossier |
| 68784-26-9  | Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased   |        |    |              |
|             | OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C (READ ACROSS)  | 13,4 % | 28 | ECHA Dossier |
| 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).  |        |    |              |
| 121158-58-5 | phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched |        |    |              |
|             | OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C  | 25%    | 28 | ECHA Dossier |

#### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### Partition coefficient n-octanol/water

| CAS No      | Chemical name  | Log Pow |
|-------------|--|---------|
| 68037-01-4  | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated  | >6,5    |
| 68784-26-9  | Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased   | 9,5     |
| 121158-58-5 | phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched | 7,1     |

#### BCF

| CAS No      | Chemical name  | BCF | Species        | Source       |
|-------------|--|-----|----------------|--------------|
| 68784-26-9  | Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased   | 2,2 | lipid triolein | ECHA Dossier |
| 121158-58-5 | phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched | 2,9 |                |              |

#### 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

Endocrine disrupting properties: phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched.

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.

### 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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS ViVA 1 ecosynth**

Revision date: 02.03.2023

Product code:

Page 13 of 15

**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:** 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.

**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**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):  
phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched

Restrictions on use (REACH, annex XVII):

Entry 28, Entry 30, Entry 75

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

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS ViVA 1 ecosynth**

Revision date: 02.03.2023

Product code:

Page 14 of 15

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)  
This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [CLP].  
REACH 1907/2006 Appendix XVII, No (mixture): not relevant  
Observe in addition any national regulations!

**National regulatory information**

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**

Rev.: 1,0 - 16.04.2015  
Rev.: 1,1 - 29.04.2016  
Rev.: 1,11 - 24.05.2016  
Rev.: 2,0 - 12.06.2017  
Rev.: 3,0 - 28.06.2018  
Rev.: 3,1 - 28.12.2018  
Rev.: 4,0 - 23.12.2019; Changes in chapter: 3, 8, 10, 11, 12, 15, 16  
Rev.: 5,0 - 01.12.2020; Changes in chapter: 15.1, 16  
Rev.: 6,0 - 09.12.2021, Changes in chapter: 3.2, 6.1, 6.3, 8.1, 8.2, 11.1, 11.2, 12.1, 12.2, 12.3, 12.6, 12.7, 15.1, 16  
Rev.: 6,1 - 11.03.2022, Changes in chapter: 2.3, 3.2, 8.1, 8.2, 11.1, 11.2, 12.1, 12.2, 12.3, 12.5, 12.6, 15.1, 16  
Rev.: 7,0 - 02.03.2023, Changes in chapter: 2.3, 9.1, 12.5, 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  
DNEL: Derived No Effect Level  
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)  
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  
NTP: National Toxicology Program  
N/A: not applicable  
PNEC: predicted no effect concentration  
PBT: Persistent bioaccumulative toxic

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**SRS ViVA 1 ecosynth**

Revision date: 02.03.2023

Product code:

Page 15 of 15

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 fuerGefahrstoffe

TSCA: Toxic Substances Control Act

VOC: Volatile Organic Compounds

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

|        |  |
|--------|--|
| 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.   |
| H360F  | May damage fertility.  |
| 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.   |
| H413   | May cause long lasting harmful effects to aquatic life.  |
| EUH208 | Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction. |
| EUH210 | Safety data sheet available on request.  |

**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.)*