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

1.1. Product identifier
SRS ViVA 1 ecosynth plus

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

Use of the substance/mixture
Industrial uses

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 C14-16-18 Alkyl phenol [EC-No.: 931-468-2]. May produce an allergic reaction.
EUH210 Safety data sheet available on request.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
This mixture contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Index No</th>
<th>REACH No</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>68037-01-4</td>
<td>Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</td>
<td>01-2119486452-34</td>
<td>45 - &lt; 50 %</td>
<td></td>
</tr>
<tr>
<td>500-183-1</td>
<td>Asp. Tox. 1; H304</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>72623-87-1</td>
<td>Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based</td>
<td>01-2119474889-13</td>
<td>5 - &lt; 10 %</td>
<td></td>
</tr>
<tr>
<td>276-738-4</td>
<td>Asp. Tox. 1; H304</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64742-54-7</td>
<td>Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic</td>
<td>01-2119484627-25</td>
<td>1 - &lt; 5 %</td>
<td></td>
</tr>
<tr>
<td>265-157-1</td>
<td>649-467-00-8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 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, consult a physician.

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

Unsuitable extinguishing media
High power water jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.
Can be released in case of fire: Carbon monoxide Carbon dioxide (CO2) Sulphur dioxide (SO2) Nitrogen oxides (NOx)

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
Wear personal protection equipment (refer to section 8).
Ventilate affected area.
Special danger of slipping by leaking/spilling product.

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
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.
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

Further information on handling
Do not breathe vapour/aerosol.
Avoid contact with eyes and skin.
Advices on general occupational hygiene: 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

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

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>DNEL type</th>
<th>Exposure route</th>
<th>Effect</th>
<th>Value</th>
</tr>
</thead>
</table>

Revision No: 3.0 - Replaces version: 2
### PNEC values

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>Environmental compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-54-7</td>
<td>Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic</td>
<td>Secondary poisoning</td>
<td>9,33 mg/kg</td>
</tr>
<tr>
<td>93819-94-4</td>
<td>zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)</td>
<td>Freshwater</td>
<td>0,004 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Freshwater (intermittent releases)</td>
<td>0,021 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water</td>
<td>0,0046 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Freshwater sediment</td>
<td>0,012 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine sediment</td>
<td>0,001 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Secondary poisoning</td>
<td>10,67 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Micro-organisms in sewage treatment plants (STP)</td>
<td>0,012 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil</td>
<td>0,005 mg/kg</td>
</tr>
<tr>
<td>36878-20-3</td>
<td>Bis(nonylphenyl)amine</td>
<td>Freshwater</td>
<td>0,1 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Freshwater (intermittent releases)</td>
<td>1 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water</td>
<td>0,01 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water (intermittent releases)</td>
<td>13200 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Freshwater sediment</td>
<td>13200 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Micro-organisms in sewage treatment plants (STP)</td>
<td>1 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil</td>
<td>263000 mg/kg</td>
</tr>
</tbody>
</table>

### Additional advice on limit values

Air limit values:
- Possibility of exposure to Aerosol
  - Limit value = 5 mg/ m³ - Source: ACGIH

### 8.2. Exposure controls

**Appropriate engineering controls**
- Provide adequate ventilation.

**Protective and hygiene measures**
- 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.
Eye/face protection
Safety goggles with side protection. In case of increased risk add protective face shield. DIN EN 166

Hand protection
Use safety gloves of following materials: NBR (nitrile) / neopren / viton (permeationslevel 5 - 6), Cat. II
according to norm EN 347/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.

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

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>clear</td>
</tr>
<tr>
<td>Odour:</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

Test method

pH-Value: No information available.

Changes in the physical state

Melting point: No information available.
Initial boiling point and boiling range: No information available.
Sublimation point: No information available.
Softening point: No information available.
Pour point: -54 °C ASTM D 97-66
Flash point: 236 °C COC
Sustaining combustion: No data available

Flammability

Solid: No information available.
Gas: No information available.

Explosive properties

none

Lower explosion limits: No information available.
Upper explosion limits: No information available.
Ignition temperature: No information available.

Auto-ignition temperature
### SRS ViVA 1 ecosynth plus

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<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid:</td>
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<tr>
<td>Gas:</td>
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<tr>
<td>Decomposition temperature:</td>
<td>No information available.</td>
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<tr>
<td><strong>Oxidizing properties</strong></td>
<td>None</td>
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<tr>
<td>Vapour pressure:</td>
<td>(at 20 °C) No information available.</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>(at 50 °C) No information available.</td>
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<tr>
<td>Density (at 15 °C):</td>
<td>0.8437 g/cm³</td>
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<tr>
<td>Bulk density:</td>
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<tr>
<td>Water solubility:</td>
<td>Immiscible</td>
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<td><strong>Solubility in other solvents</strong></td>
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<tr>
<td>Partition coefficient:</td>
<td>No information available.</td>
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<td>Viscosity / dynamic:</td>
<td>No information available.</td>
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<tr>
<td>Viscosity / kinematic:</td>
<td>77.15 mm²/s</td>
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<td>(at 40 °C)</td>
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<td>Flow time:</td>
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<td>Vapour density:</td>
<td>No information available.</td>
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<td>Evaporation rate:</td>
<td>No information available.</td>
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<td>Solvent separation test:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Solvent content:</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

### SECTION 10: Stability and reactivity

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

Stable at ambient temperature.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**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 toxicological effects**

**Toxicokinetics, metabolism and distribution**

No information available.

**Acute toxicity**

Based on available data, the classification criteria are not met.
### Chemicals and Exposure Routes

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>68037-01-4</td>
<td>Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;5000</td>
<td>Rat.</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2000</td>
<td>Rat.</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation (4 h) aerosol</td>
<td>LC50</td>
<td>&gt;5,2 mg/l</td>
<td>Rat. (OECD 403)</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td>72623-87-1</td>
<td>Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;5000</td>
<td>Rat (OECD 401)</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2000</td>
<td>Rabbit (OECD 402)</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation (4 h) aerosol</td>
<td>LC50</td>
<td>&gt;5,53</td>
<td>Rat (OECD 403)</td>
<td>ECHA Dossier</td>
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<tr>
<td>64742-54-7</td>
<td>Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;5000</td>
<td>Rat (OECD 401)</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2000</td>
<td>Rabbit (OECD 402)</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td>72623-86-0</td>
<td>Baseoil - unspecified, Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;5000</td>
<td>Rat</td>
<td>ECHA Dossier, OECD 401</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2000</td>
<td>Rabbit</td>
<td>ECHA Dossier, OECD 402</td>
</tr>
<tr>
<td>93819-94-4</td>
<td>zinc bis[(O-(6-methylheptyl)] bis[(O-(sec-butyl)] bis(dithiophosphate)</td>
<td>oral</td>
<td>LD50</td>
<td>2600</td>
<td>Rat</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td>36878-20-3</td>
<td>Bis(nonylphenyl)amine</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;5000</td>
<td>Rat</td>
<td>ECHA Dossier</td>
</tr>
</tbody>
</table>

### Irritation and corrosivity
Based on available data, the classification criteria are not met.

- Skin Irrit. 2 : Specific concentration limit (SCL): >= 6,5%
- Eye Irrit. 2 : Specific concentration limit (SCL): >=10 - < 12,5%
- Eye Dam. 1 : >= 12,5%

### Sensitising effects
Contains C14-16-18 Alkyl phenol [EC-No.: 931-468-2]. 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.

- 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
- Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based:
  - In vitro mutagenicity/genotoxicity: Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test);
Result: negative. Literature information: ECHA Dossier; Carcinogenicity: Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies); Species: Mouse; Result: 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); Result: NOAEL > 1000 mg/kg; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Result: NOAEL >= 2000 mg/kg; Literature information: ECHA Dossier

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

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

Baseoil - unspecified, Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:

In vitro mutagenicity/genotoxicity: Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test); Result: negative. Literature information: ECHA Dossier; Carcinogenicity: Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies); Species: Mouse.; Result: 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); Result: NOAEL > 1000 mg/kg; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Species: Rat (Sprague-Dawley); Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Result: NOAEL >= 2000 mg/kg; Literature information: ECHA Dossier

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

Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Species: Rat; Results: NOAEL 1000 mg/kg; Literature information: ECHA Dossier

Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based:

Subacute inhalative toxicity: Method: -; Exposure time: 28d; Species: Rat; Results: NOAEL >980 mg/m3; 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

**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.

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

Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Species: Rat; Results: NOAEL 1000 mg/kg; Literature information: ECHA Dossier

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

Subacute inhalative toxicity: Method: -; Exposure time: 28d; Species: Rat; Results: NOAEL >980 mg/m3; 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

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

Subacute inhalative toxicity: Method: -; Exposure time: 28d; Species: Rat; Results: NOAEL >980 mg/m3; 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

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

Subacute inhalative toxicity: Method: -; Exposure time: 28d; Species: Rat; Results: NOAEL >980 mg/m3; 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

**zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):**

In vitro mutagenicity/genotoxicity: Method: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test); Result: negative. Literature information: ECHA Dossier

**Bis(nonylphenyl)amine:**

Developmental toxicity/teratogenicity: Species: Rat (Wistar); Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Result: NOAEL >= 500 mg/kg; Literature information: ECHA Dossier
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

Baseoil - unspecified, Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:

Subacute inhalative toxicity: Method: -; Exposure time: 28d. Species: Rat. Results: NOAEL >980 mg/m3.

Literature information: ECHA Dossier

zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Chronic oral toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test); Exposure time: 28d; Species: Rat; Results: NOAEL = 160 mg/kg (READ ACROSS); Literature information: ECHA Dossier

Bis(nonylphenyl)amine:

Subchronic oral toxicity: Exposure time: 90d; Species: Han Wistar Rat.; Method: OECD Guideline 408; Result: LOAEL = 100 mg/kg; Literature information: ECHA Dossier

**Aspiration hazard**

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

**Other observations**

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

### 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 (H410, H411, H412). Raw materials containing this substance have not been classified by our suppliers as hazardous to the environment (H410, H411) on the basis of test data, expert judgement or analogy assessments.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aquatic toxicity</td>
</tr>
<tr>
<td>68037-01-4</td>
<td>Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</td>
</tr>
<tr>
<td></td>
<td>Acute fish toxicity</td>
</tr>
<tr>
<td></td>
<td>Acute crustacea toxicity</td>
</tr>
<tr>
<td>64742-54-7</td>
<td>Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic</td>
</tr>
<tr>
<td></td>
<td>Crustacea toxicity</td>
</tr>
<tr>
<td>93819-94-4</td>
<td>zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)</td>
</tr>
<tr>
<td></td>
<td>Acute fish toxicity</td>
</tr>
<tr>
<td></td>
<td>Acute algae toxicity</td>
</tr>
<tr>
<td></td>
<td>Acute crustacea toxicity</td>
</tr>
<tr>
<td></td>
<td>Crustacea toxicity</td>
</tr>
<tr>
<td>36878-20-3</td>
<td>Bis(nonylphenyl)amine</td>
</tr>
<tr>
<td></td>
<td>Acute fish toxicity</td>
</tr>
<tr>
<td></td>
<td>Acute crustacea toxicity</td>
</tr>
</tbody>
</table>

#### 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.
12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>68037-01-4</td>
<td>Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</td>
<td>&gt;6,5</td>
</tr>
</tbody>
</table>

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.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

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.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPIING 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: 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: 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: 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: 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. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information
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
Observe in addition any national regulations!

National regulatory information

Additional information
Water hazard class (WGK) = 2

15.2 Chemical Safety Assessment
not applicable.

SECTION 16: Other information
Changes
This data sheet contains changes from the previous version in section(s): 1,3,11,15,16.
Rev. : 1.0 - 12.10.2016
Rev. : 2.0 - 05.10.2017
Rev. : 3.0 - 15.10.2018

Abbreviations and acronyms
ADR: Accord européen sur le transport des marchandises dangereuses par Route
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 level
NTP: National Toxicology Program
N/A: not applicable
OSHA: Occupational Safety and Health Administration
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)
SARA: Superfund Amendments and Reauthorization Act
SVHC: substance of very high concern
TRGS Technische Regeln fuerGefahrstoffe
TSCA: Toxic Substances Control Act
VOC: Volatile Organic Compounds
VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe
WGK: Wassergefaehrdungsklasse

Relevant H and EUH statements (number and full text)
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.
EUH208 Contains C14-16-18 Alkyl phenol [EC-No.: 931-468-2]. 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.)