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

1.1. Product identifier
SRS ViVA 1 special F eco

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
EUH210 Safety data sheet available on request.

Special labelling of certain mixtures
- 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.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-54-7</td>
<td>Destillate (Erdöl), mit Wasserstoff behandelte schwere paraffinhaltige; Grundöl - nicht spezifiziert</td>
<td>265-157-1</td>
<td>649-467-00-8</td>
<td>01-2119484627-25</td>
<td>65 - &lt; 70 %</td>
</tr>
<tr>
<td>36878-20-3</td>
<td>Bis(nonylphenyl)amine</td>
<td>253-249-4</td>
<td></td>
<td>01-2119488911-28</td>
<td>1 - &lt; 5 %</td>
</tr>
</tbody>
</table>

Aquatic Chronic 4; H413

Polymer
- Calcium branched alkyl phenate sulphide (overbased) 1 - < 5 %
- Aquatic Chronic 4; H413
Full text of H and EUH statements: see section 16.

**Further Information**

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO 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. This note applies only to certain complex oil-derived substances in Part 3.

**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, 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) 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
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.
Advises 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.

Advice on storage compatibility
Do not store together with: Gas. Explosives. 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

<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>
<tbody>
<tr>
<td>36878-20-3</td>
<td>Bis(nonylphenyl)amine</td>
<td></td>
<td>dermal</td>
<td>systemic</td>
<td>5 mg/kg bw/day</td>
</tr>
</tbody>
</table>

PNEC values

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>Environmental compartment</th>
<th>Value</th>
</tr>
</thead>
</table>

Revision No: 3.0 - Replaces version: 2  GB - EN  Print date: 31.07.2018
according to Regulation (EC) No 1907/2006

Safety Data Sheet

SRS VIVA 1 special F eco

Revision date: 27.06.2018

SRS Schmierstoff Vertrieb GmbH

64742-54-7 Destillate (Erdöl), mit Wasserstoff behandelte schwere paraffinhaltige: Grundöl - nicht spezifiziert

Secondary poisoning 9,33 mg/kg

36878-20-3 Bis(nonylphenyl)amine

Freshwater 0,1 mg/l

Freshwater (intermittent releases) 1 mg/l

Marine water 0,01 mg/l

Marine water (intermittent releases) 13200 mg/kg

Freshwater sediment 132000 mg/kg

Micro-organisms in sewage treatment plants (STP) 1 mg/l

Soil 263000 mg/kg

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.

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

Physical state: liquid
Colour: clear
Odour: characteristic

Test method

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: -36 °C ISO 3016
Flash point: 230 °C DIN EN ISO 2592
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
Solid: No information available.
Gas: No information available.

Decomposition temperature: No information available.

Oxidizing properties
none
Vapour pressure: <0,1 hPa calculated.
Vapour pressure: No information available.
Vapour pressure: No information available.
Density (at 15 °C): 0,851 g/cm³ DIN 51757
Bulk density: No information available.
Water solubility: Immiscible

Solubility in other solvents
No information available.
Partition coefficient: No information available.
Viscosity / dynamic: No information available.
Viscosity / kinematic: 40,7 mm²/s DIN EN ISO 3104
(at 40 °C)
Flow time: No information available.
Vapour density: No information available.
Evaporation rate: No information available.
9.2. Other information

Solid content: No information available.

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 hazardous decomposition products known.

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.

<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>64742-54-7</td>
<td>Destillate (Erdöl), mit Wasserstoff behandelte schwere paraffinhaltige; Grundöl - nicht spezifiziert</td>
<td>oral</td>
<td>LD50 mg/kg</td>
<td>&gt;5000 Rat (OECD 401 )</td>
<td>ECHA Dossier</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 mg/kg</td>
<td>&gt;2000 Rabbit (OECD 402 )</td>
<td>ECHA Dossier</td>
<td></td>
</tr>
<tr>
<td>36878-20-3</td>
<td>Bis(nonylphenyl)amine</td>
<td>oral</td>
<td>LD50 mg/kg</td>
<td>&gt;5000 Rat</td>
<td>ECHA Dossier</td>
<td></td>
</tr>
</tbody>
</table>

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

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

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

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Based on available data, the classification criteria are not met.
Baseoil - unspecified, Distillates (petroleum), hydrotreated 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

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.

Practical experience
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>
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<tr>
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</tr>
<tr>
<td>36878-20-3</td>
<td>Bis(nonylphenyl)amine</td>
</tr>
</tbody>
</table>

**Aquatic toxicity**
- NOEC 10 mg/l 21d Daphnia magna (OECD 211) ECHA Dossier
- LC50 mg/l >100 Brachydanio rerio (new name: Danio rerio) (OECD 20) ECHA Dossier
- EC50 mg/l >100 Daphnia magna (OECD 202) ECHA Dossier

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.

<table>
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<tr>
<th>CAS No</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-54-7</td>
<td>Destillate (Erßöl), mit Wasserstoff behandelte schwere paraffinhaltige; Grundöl - nicht spezifiziert</td>
</tr>
</tbody>
</table>

**Evaluation**
- OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D 31% 28 ECHA Dossier
- Not easily bio-degradable (according to OECD-criteria).
12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

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, 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: 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): 2,3,11,14,15,16.
- Rev.: 1.0 - 15.04.2015
- Rev.: 1.01 - 28.04.2015
- Rev.: 1.1 - 09.05.2016
- Rev.: 2.0 - 02.06.2017
- Rev.: 3.0 - 27.06.2018

**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)**

- **H413**: May cause long lasting harmful effects to aquatic life.
- **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.)*