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

1.1 Product identifier
Trade Name: SCHÜLER EWO DRUCKLUFT SPEZIAL ÖL
Article No.: n.av.
Preparation No.: n.av.
Registration No.: n.av.

1.2 Relevant identified uses of the substance or mixture
Hydraulic oils

1.3 Details of the supplier of the safety data sheet
1.3.1 Address of the Company / Supplier:
Willi Schüler GmbH Mineralöle Techn. Großhandel, Alemannenstr. 4-6, D- 79285 Ebringen
Telephone: +49 – 7664-9717-0, Telefax: +49 – 7664-9717-17, E-Mail: info@oelschueler.de

1.3.2 Responsible:
Chemie & Vorschrift, Kannheideweg 35, D-53123 Bonn-Duisdorf; E-Mail: info@chemie-vorschrift.de

1.4 Emergency telephone number
Emergency - Telephone of Company / Undertaking Information Centre Specialising in Symptoms of Poisoning
Telephone: +49 – 7664-9717-0 (08:30 - 16:30) Telephone: +49 - 761 - 19 240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
None.

2.2 Label elements
Classification according to EEC - Regulations: No.
Applicable Exemptions:
Hazard Identification: None.
Component(s):
R - Phrases:

S - Phrases:
S 2 - Keep out of the reach of children.
S 62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Additional Markings:
Although this product does not require a hazard warning label, we recommend that the safety advice should be observed.
The above mentioned labelling is valid for distribution to private consumer.

2.3 Other hazards
Inhalation of vapours in high concentration may cause irritation of respiratory system. Solvents may degrease the skin. May cause long-term adverse effects in the aquatic environment.

SECTION 3: Composition/information on ingredients

3.1 Substances
Chemical Characterisation:
Petroleum products

3.2 Mixtures
Dangerous Ingredients:

<table>
<thead>
<tr>
<th>CAS - No.</th>
<th>Index - No.</th>
<th>EEC - No.</th>
<th>Material</th>
<th>m% - range</th>
<th>Symbol</th>
<th>R - phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>68649-42-3</td>
<td>n.av.</td>
<td>272-028-3</td>
<td>Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts</td>
<td>0,1 - 1%</td>
<td>XI, N</td>
<td>R 31-38-41-51/53</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>GHS05</td>
<td>H315 H318 H411</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>GHS09</td>
<td>EUH031</td>
</tr>
</tbody>
</table>
### SECTION 4: First aid measures

<table>
<thead>
<tr>
<th>4.1</th>
<th>Description of first aid measures</th>
</tr>
</thead>
</table>
| 4.1.1 | **Inhalation:**  
Move to fresh air in case of accidental inhalation of vapours or decomposition products.  
If symptoms persist, call a physician. |
| 4.1.2 | **Skin Contact:**  
Wash off with warm water and soap. |
| 4.1.3 | **Eye Contact:**  
In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. |
| 4.1.4 | **Ingestion:**  
Do not induce vomiting. Rinse mouth. Consult a physician. |

<table>
<thead>
<tr>
<th>4.2</th>
<th>Most important symptoms and effects, both acute and delayed</th>
</tr>
</thead>
</table>
|     | Risk of product entering the lungs on vomiting after ingestion.  
Aspiration may cause pulmonary oedema and pneumonitis. |

<table>
<thead>
<tr>
<th>4.3</th>
<th>Indication of any immediate medical attention and special treatment needed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Treat symptomatically.</td>
</tr>
</tbody>
</table>

### SECTION 5: Firefighting measures

<table>
<thead>
<tr>
<th>5.1</th>
<th>Extinguishing media</th>
</tr>
</thead>
</table>
| 5.1.1 | **Suitable Extinguishing Media:**  
Use dry chemical, CO₂, water spray or “alcohol” foam. |
| 5.1.2 | **Extinguishing Media to Avoid:**  
High volume water jet |
| 5.2 | **Special hazards arising from the substance or mixture** |
|     | In the event of fire the following can be released:  
Carbon oxides, sulphur oxides, nitrogen oxides (NOₓ). |
| 5.3 | **Advice for firefighters** |
| 5.3.1 | **Special Protective Equipment:**  
Wear positive pressure self-contained breathing apparatus. Wear full protective clothing. |
| 5.3.2 | **Additional Information:**  
In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

### SECTION 6: Accidental release measures

<table>
<thead>
<tr>
<th>6.1</th>
<th>Personal precautions, protective equipment and emergency procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Contaminated surfaces will be extremely slippery.</td>
</tr>
<tr>
<td>6.2</td>
<td><strong>Environmental precautions</strong></td>
</tr>
<tr>
<td></td>
<td>Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.</td>
</tr>
<tr>
<td>6.3</td>
<td><strong>Methods and material for containment and cleaning up</strong></td>
</tr>
</tbody>
</table>
|     | Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Soak up with oil absorbent material. Shovel into suitable container for disposal. |
| 6.4 | **Reference to other sections** |
|     | None. |

### SECTION 7: Handling and storage

<table>
<thead>
<tr>
<th>7.1</th>
<th>Precautions for safe handling</th>
</tr>
</thead>
</table>
| 7.1.1 | **Precautions for Safe Handling:**  
Ensure adequate ventilation. Do not breathe spray mist. |
| 7.1.2 | **Precautions in Case of Fire and Explosion:**  
Normal measures for preventive fire protection. Do not smoke. |
| 7.2 | Conditions for safe storage, including any incompatibilities |
| 7.2.1 | **Storage Instructions:**  
Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container.  
Keep away from heat. Keep away from direct sunlight. |
| 7.2.2 | **Store away from:**  
Do not store together with oxidizing agents. |
| 7.2.3 | **Further Information on Storage Conditions:**  
Avoid subsoil penetration. |
| 7.3 | **Specific end use(s)** |
|     | n.av. |
SECTION 8: Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Material</th>
<th>Limit Value</th>
</tr>
</thead>
</table>

8.2 Exposure controls

8.2.1 Appropriate engineering controls
- Avoid contact with skin and eyes.
- Remove and wash contaminated clothing before re-use.
- When using, do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Do not port contaminated cleaning rags in pockets.
- Contaminated equipment (brushes, rags) must be cleaned immediately with water.

8.2.2 Individual protection measures

8.2.2a Respiratory Protection
- Breathing apparatus needed only when aerosol or mist is formed.
- Respirator with filter A2, A2P2, ABEK

8.2.2b Hand Protection
- Use protective skin cream before handling the product.
- Protective gloves (nitrile rubber, neoprene)
  - As the product is a preparation of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.
  - The break through time depends amongst other things from the material, the thickness and the type of glove and therefore has to be measured for each case.

8.2.2c Eye Protection
- Safety glasses

8.2.2d Skin Protection
- n.av.

8.2.3 Environmental exposure controls
- Do not allow material to contaminate ground water system.
- Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1.1 Form : liquid
- Colour : yellow light brown
- Odour : characteristic

9.1.2 pH-value, undiluted : n.ap., pH-value, 1% aqueous solution : n.ap.

9.1.3 Boiling point / Boiling range (°C) : n.av., Melting point / Melting range (°C) : n.av.

9.1.4 Flash point (°C, c.c.) : > 110,

9.1.5 Flammability (EEC A10/A13) : n.av.

9.1.6 Ignition temperature (°C) : n.av.

9.1.7 Autoignitability (EEC A16) : Not available.

9.1.8 Oxidising properties : None.

9.1.9 Explosion hazard : None.

9.1.10 Explosion limits (Vol.% lower : n.av., upper : n.av.

9.1.11 Vapour pressure : n.av.

9.1.12 Density (g/ml) : 0.87 (15°C)

9.1.13 Solubility (in Water) : practically insoluble
  - Soluble in : organic solvent

9.1.14 Partition coefficient, n-Octanol/Water : n.av.

9.1.15 Viscosity : ~ 32 mm² / s (40°C)

9.1.16 Solvent separation test : n.av.

9.1.17 Solvent content (m %) : Not relevant

9.2 Other information

9.2.1 Thermal decomposition (°C) : n.av.

9.2.2 Vapour density (Air = 1) : n.av.

9.2.3 Evaporation rate : n.av.
SECTION 10: Stability and reactivity

10.1 Reactivity
None.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid
Protect from frost, heat and sunlight.

10.5 Incompatible materials
Strong oxidizing agents.

10.6 Hazardous decomposition products
No decomposition if stored and applied as directed.
To avoid thermal decomposition, do not overheat.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

11.1.1 Acute Health Effects :
- Inhalation, LC₅₀ rat, (mg/l/4h) : n.av.
- Ingestion, LD₅₀ rat, (mg/kg) : n.av.
- Skin - contact, LD₅₀ rat, (mg/kg) : n.av.
- Irritation (to skin / eye) : Slight
- Sensitisation : None.

11.1.2 Subacute / Chronic Toxicity :
- Carcinogenicity : n.av.
- Mutagenicity : n.av.
- Teratogenicity : n.av.
- Narcotic Effects : None.

11.1.3 Practical Experience
11.1.3.1 Observations relevant for classification : None.
11.1.3.2 Further Observations :
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

11.1.4 General Remarks :
Classification of the preparation has been done by calculation in accordance with EEC directives.

SECTION 12: Ecological information

12.1 Toxicity
We have no quantitative data concerning the ecological effects of this product.

12.2 Persistence and degradability
Not readily biodegradable. Inherently biodegradable. The product is slightly soluble in water.
It can be eliminated from water by abiotic processes.

12.3 Bioaccumulative potential
n.av.

12.4 Mobility in soil
n.av.

12.5 Results of PBT and vPvB assessment
n.av.

12.6 Other adverse effects
12.6.1 COD-Value, mg/g : n.av.
12.6.2 BOD₅-Value, mg/g : n.av.
12.6.3 AOX-Remarks : Not applicable.
12.6.4 Significant Components : Hydrocarbons
12.6.5 Other adverse effects : Not applicable.
SECTION 13: Disposal considerations

13.1 Waste treatment methods
13.1.1 Recommendation: Waste Code No.: 13 01 10
In addition comply with the regional authorities.

13.2 Contaminated Packaging
13.2.1 Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.
13.2.2 Safe Handling: As described under Residues.

SECTION 14: Transport information

14.1 UN number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user
Transport-category: Classification Code:
Hazard-No.: LQ:

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available.

15.2 Chemical safety assessment: None.

SECTION 16: Other information

Text of R-phrases mentioned in Section 3:
R 31: Contact with acids liberates toxic gas.
R 38: Irritating to skin.
R 41: Risk of serious damage to eyes.
R 51/S3: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
EUH031: Contact with acids liberates toxic gas.
H 315: Causes skin irritation.
H 318: Causes serious eye damage.
H 411: Toxic to aquatic life with long lasting effects.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

Prepared by: Chemie & Vorschrift, Kannheideweg 35, D-53123 Bonn-Duisdorf, +49-228-74 81 824
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