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

1.1. Product identifier
BOGE VDL 150

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

Use of the substance/mixture
Compressor Oil.

Uses advised against
none

1.3. Details of the supplier of the safety data sheet

Company name: BOGE KOMPRESSOREN Otto Boge GmbH & Co. KG
Street: Otto-Boge-Straße 1-7
Place: 33739 Bielefeld
Telephone: +49 5206 601-0
Responsible Department: info@boge.de

1.4. Emergency telephone number:
+ 44 1235 239670 (en)

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 2-ethylhexyl 10-ethyl-4-[2-[2-(2-ethylhexyl)oxy]-2-oxoethyl]thio]-7-oxo-8-oxa-3,5-dithia-4-phosphatetradecanoate 4-oxide. May produce an allergic reaction.
EUH210 Safety data sheet available on request.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>83547-95-9</td>
<td>2-ethylhexyl 10-ethyl-4-[2-[2-(2-ethylhexyl)oxy]-2-oxoethyl]thio]-7-oxo-8-oxa-3,5-dithia-4-phosphatetradecanoate 4-oxide</td>
<td>0.1 - &lt; 0.2 %</td>
</tr>
</tbody>
</table>

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

<table>
<thead>
<tr>
<th>CAS No</th>
<th>EC No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></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, 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

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 (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

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
   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
   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
Safety Data Sheet

according to Regulation (EC) No 1907/2006

BOGE VDL 150

Revision date: 14.11.2022

CAS No | Name of agent
--- | ---
83547-95-9 | 2-ethylhexyl 10-ethyl-4-[[2-[[2-ethylhexyl]oxy]-2-oxoethyl]thio]-7-oxo-8-oxa-3,5-dithia-4-phosphatetradecanoate 4-oxide

<table>
<thead>
<tr>
<th>DNEL type</th>
<th>Exposure route</th>
<th>Effect</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Worker DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>0.822 mg/m³</td>
</tr>
<tr>
<td>Worker DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>0.233 mg/kg bw/day</td>
</tr>
<tr>
<td>Consumer DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>0.145 mg/m³</td>
</tr>
<tr>
<td>Consumer DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>0.0833 mg/kg bw/day</td>
</tr>
<tr>
<td>Consumer DNEL, long-term</td>
<td>oral</td>
<td>systemic</td>
<td>0.0833 mg/kg bw/day</td>
</tr>
</tbody>
</table>

PNEC values

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Name of agent</th>
</tr>
</thead>
<tbody>
<tr>
<td>83547-95-9</td>
<td>2-ethylhexyl 10-ethyl-4-[[2-[[2-ethylhexyl]oxy]-2-oxoethyl]thio]-7-oxo-8-oxa-3,5-dithia-4-phosphatetradecanoate 4-oxide</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshwater</td>
<td>0.0031 mg/l</td>
</tr>
<tr>
<td>Freshwater (intermittent releases)</td>
<td>0.031 mg/l</td>
</tr>
<tr>
<td>Marine water</td>
<td>0.00031 mg/l</td>
</tr>
</tbody>
</table>

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 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Changes in the physical state</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Boiling point or initial boiling point and boiling range:</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Sublimation point</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Softening point</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Pour point</td>
<td>-12 °C ASTM D 5985</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>264 °C DIN ISO 2592</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td></td>
<td>No information available.</td>
</tr>
<tr>
<td>Gas</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>none</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower explosion limits:</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Upper explosion limits:</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature:</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Self-ignition temperature</td>
<td></td>
<td>No information available.</td>
</tr>
<tr>
<td>Solid</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Gas</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>pH-Value</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Viscosity / dynamic</td>
<td>No information available.</td>
<td></td>
</tr>
</tbody>
</table>
Viscosity / kinematic: 150 mm²/s  DIN EN ISO 3104
(at 40 °C)
Flow time: No information available.
Water solubility: Immiscible

Solubility in other solvents
No information available.

Partition coefficient n-octanol/water: No information available.
Vapour pressure: No information available.
(at 20 °C)
Vapour pressure: No information available.
(at 50 °C)
Density (at 15 °C): 0.886 g/cm³  DIN 51757
Bulk density: No information available.
Relative vapour density: No information available.

9.2. Other information

Information with regard to physical hazard classes
Sustaining combustion: No data available
Oxidizing properties none

Other safety characteristics
Solvent separation test: No information available.
Solvent content: No information available.
Solid content: No information available.
Evaporation rate: No information available.

Further Information

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
Oxidising agent, strong

10.5. Incompatible materials
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.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>83547-95-9</td>
<td>2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-7-oxo-8-oxa-3,5-dithia-4-phosphatetradecanoate 4-oxide</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>oral</td>
<td>LD50 mg/kg</td>
<td>3313</td>
<td>Rat</td>
<td>ECHA Dossier</td>
<td>EPA OPP 81-1</td>
</tr>
<tr>
<td>dermal</td>
<td>LD50 mg/kg</td>
<td>&gt; 3000</td>
<td>Rat</td>
<td>ECHA Dossier</td>
<td>EPA OPP 81-2</td>
</tr>
</tbody>
</table>

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

Sensitising effects
Contains 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-7-oxo-8-oxa-3,5-dithia-4-phosphatetradecanoate 4-oxide. 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.

2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-7-oxo-8-oxa-3,5-dithia-4-phosphatetradecanoate 4-oxide:
- In-vitro mutagenicity:
  Method: JAPAN: Guidelines for Screening Mutagenicity Testing Of Chemicals
  Result: negative. Literature information: ECHA Dossier

2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-7-oxo-8-oxa-3,5-dithia-4-phosphatetradecanoate 4-oxide:
- Reproductive toxicity:
  Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)
  Species: Rat.
  Results: NOAEL (P0) = 50 mg/kg; NOAEL (F1) >= 150 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.

2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-7-oxo-8-oxa-3,5-dithia-4-phosphatetradecanoate 4-oxide:
- Subchronic oral toxicity:
  Method: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
  Species: Rat
  Results: NOEL = 100 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
No information available.

Other information
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. 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.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>83547-95-9</td>
<td>2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-7-oxo-8-oxa-3,5-dithia-4-phosphatetradecanoate 4-oxide</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>4,05</td>
<td>96</td>
<td>Brachydanio rerio</td>
<td>ECHA Dossier</td>
<td>OECD Guideline 203</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.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Method</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>83547-95-9</td>
<td>2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-7-oxo-8-oxa-3,5-dithia-4-phosphatetradecanoate 4-oxide</td>
<td>Evaluation</td>
<td>82%</td>
<td>OECD Guideline 301 F</td>
</tr>
</tbody>
</table>

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>83547-95-9</td>
<td>2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-7-oxo-8-oxa-3,5-dithia-4-phosphatetradecanoate 4-oxide</td>
<td>10.04</td>
</tr>
</tbody>
</table>

**BCF**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>BCF</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>83547-95-9</td>
<td>2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-7-oxo-8-oxa-3,5-dithia-4-phosphatetradecanoate 4-oxide</td>
<td>109</td>
<td>Model results (2018)</td>
<td></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. The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations
13.1. Waste treatment methods

Disposal recommendations
Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

List of Wastes Code - contaminated packaging
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
Restrictions on use (REACH, annex XVII):
Entry 75
2010/75/EU (VOC): No information available.
Safety Data Sheet
according to Regulation (EC) No 1907/2006

BOGE KOMPRESSOREN
BOGE VDL 150

Revision date: 14.11.2022
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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

The mixture is classified as not hazardous according to regulation (EC) No 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): 1 - slightly 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 - 05.05.2015
- Rev.: 1.1 - 17.05.2016
- Rev.: 2.0 - 05.06.2017
- Rev.: 3.0 - 27.06.2018
- Rev.: 4.0 - 24.06.2019
- Rev.: 5.0 - 25.06.2020; Changes in chapter: 1,1,15.1, 16
- Rev.: 6.0 - 02.06.2021; Changes in chapter: 3.2, 6.1, 6.3, 11.1, 11.2, 12.1, 12.2, 12.3, 12.6, 12.7, 15.1,16
- Rev.: 6.1 - 01.09.2021; Changes in chapter: 3.2, 11.1, 12.3, 16
- Rev.: 7.0 - 14.11.2022, Changes in chapter: 2.3, 12.5, 12.6, 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 (Ordnance 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
- 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)

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
EUH208 Contains 2-ethylhexyl 10-ethyl-4-[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-7-oxo-8-oxa-3,5-
    -dithia-4-phosphatetradecanoate 4-oxide. 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.)