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

1.1 Product identifier
   Trade Name: CLASSIC MEDUNA LV 020 IV
   Article No.: n.av.
   Preparation No.: n.av.
   Registration No.: n.ap.

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Use: lubricant

1.3 Details of the supplier of the safety data sheet
   1.3.1 Address of the Company / Supplier:
   CLASSIC Schmierstoff GmbH & Co. KG, Lange Straße 100 - 106, D-27318 Hoya
   Telephone: +49 - 4251-81251, Telefax: +49 - 4251-812902, E-Mail: schmierstoffe@classic-oil.de

   1.3.2 Responsible for the data sheet:
   CoSiChem AG, Ernst-Lemmer-Straße 23, D - 35041 Marburg, info@cosichem.de

1.4 Emergency telephone number
   Emergency - Telephone of Company / Undertaking
   Information Centre Specialising in Symptoms of Poisoning
   Telephone: +49 - 4251-81251 (8:30 – 16:30) Telephone: +44 870 600 6266

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   Classification and labelling according to Directive 1272/2008/EC:
   Eye Irrit. 2; H319 / Asp. Tox. 1; H304

2.2 Label elements
   Classification according to 1272/2008/EC: Yes.
   Applicable Exemptions: No.
   Signal word(s): Danger
   Component(s): contains: Dec-1-ene oligomers, hydrogenated

H - Phrases:
   H319: Causes serious eye irritation.
   H304: May be fatal if swallowed and enters airways.

P - Phrases:
   P405: Store locked up.
   P102: Keep out of reach of children.
   P282: Do not get in eyes, on skin, or on clothing.
   P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
   Remove contact lenses, if present and easy to do. Continue rinsing.
   P301+ P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
   P331: Do NOT induce vomiting.
   P501: Dispose of contents/container to hazardous or special waste collection point.

Additional Markings:
   The above mentioned labelling is valid for distribution to private consumer.

2.3 Other hazards
   Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin
   resulting in non-allergic contact dermatitis and absorption through the skin.
   This mixture contains no substances which are assessed to be PBT or vPvB.
SECTION 3: Composition/information on ingredients

3.1 Substances
n. ap.

3.2 Mixtures

Chemical Characterisation:
Mixture mineral oil based

Dangerous Ingredients:

<table>
<thead>
<tr>
<th>Material</th>
<th>H - phrases</th>
<th>m% - range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec-1-ene oligomers, hydrogenated</td>
<td>Asp. Tox. 1 H304</td>
<td>70 - 90%</td>
</tr>
<tr>
<td>Reaction mass of isomers of C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate</td>
<td>Aquatic Chronic 4 H413</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>125643-61-0</td>
<td>406-040-9</td>
<td>01-000015551-76-xxxx</td>
</tr>
<tr>
<td>Zinc bis[O-[(6-methylheptyl)]bis(O-sec-butyl)dithiophosphate]</td>
<td>Skin Irrit. 2 H315 Eye Dam. 1 H318 Aquatic Chronic 2 H411</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>93819-94-4</td>
<td>298-577-9</td>
<td>01-2119543726-33-xxxx</td>
</tr>
<tr>
<td>Bis(nonylphenyl)amine</td>
<td>Aquatic Chronic 3 H413</td>
<td>3 - 4%</td>
</tr>
<tr>
<td>36878-20-3</td>
<td>253-249-4</td>
<td>01-211948911-28-xxxx</td>
</tr>
</tbody>
</table>

Text of H - phrases: see section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

4.1.1 Inhalation:
Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.

4.1.2 Skin Contact:
Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

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 eye irritation persists, consult a specialist.

4.1.4 Ingestion:
Call a physician immediately. Show this safety data sheet to the doctor in attendance. Do not induce vomiting. Clean mouth with water and afterwards drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung oedema or pneumonia. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically. Risk of product entering the lungs on vomiting after ingestion. Later control for pneumonia and lung oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable Extinguishing Media:
Use dry chemical, CO2, water spray or “alcohol” foam. sand

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 nitrogen oxides (NOx) sulphur oxides oxides of phosphorus

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:
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. at high temperatures Risk of receptacle bursting.
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
See chapter 8.2.2
Contaminated surfaces will be extremely slippery.

6.2 Environmental precautions
Do not contaminate water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Soak up with oil absorbent material. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
None.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

7.1.1 Precautions for Safe Handling:
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 breathe vapours or spray mist. Avoid formation of aerosol.

7.1.2 Precautions in Case of Fire and Explosion:
Keep away from sources of ignition - No smoking.
Take measures to prevent the build up of electrostatic charge.

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.

7.2.2 Store away from:
Incompatible with oxidizing agents.

7.2.3 Further Information on Storage Conditions:
Keep away from direct sunlight.

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>
<tbody>
<tr>
<td>Zinc bis(O-(6-methylheptyl)] bis(O-(sec-butyl)] bis(dithiophosphate)</td>
<td>2 mg/m³</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

8.2.1 Appropriate engineering controls
Provide appropriate exhaust ventilation at machinery. Avoid formation of aerosol.

8.2.2 Individual protection measures

8.2.2a Respiratory Protection: Not required under normal use.
Breathing apparatus needed only when aerosol or mist is formed.
Recommended Filter type: A2, A2P2, ABEK
Use protective skin cream before handling the product. Protection
rotective gloves complying with EN 374
nitrile rubber neoprene (0,4 mm) break through time > 4 h
The data about break through time/strength of material are standard values!
The exact break through time/strength of material has to be obtained from the
producer of the protective glove.
Please observe the instructions regarding permeability and breakthrough time
which are provided by the supplier of the gloves. Also take into consideration the
specific local conditions under which the product is used, such as the danger of
cuts, abrasion, and the contact time.

8.2.2c Eye Protection: Safety glasses

8.2.2d Skin Protection: Long sleeved clothing

8.2.2e Further Information: Observe wearing time limits:

8.2.3 Environmental exposure controls:
n.av.
### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Viscous liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Light yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>n.av.</td>
</tr>
<tr>
<td>pH-value, undiluted</td>
<td>n.ap.</td>
</tr>
<tr>
<td>pH-value, 1% aqueous solution</td>
<td>n.av.</td>
</tr>
<tr>
<td>Boiling point / Boiling - range (°C)</td>
<td>250, Melting point / Melting range (°C): n.av.</td>
</tr>
<tr>
<td>Flash point (°C)</td>
<td>200, closed cup</td>
</tr>
<tr>
<td>Flammability (EEC A10/A13)</td>
<td>n.av.</td>
</tr>
<tr>
<td>Ignition temperature (°C)</td>
<td>n.av.</td>
</tr>
<tr>
<td>Autoignitability (EEC A16)</td>
<td>None.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>None.</td>
</tr>
<tr>
<td>Explosion hazard</td>
<td>None.</td>
</tr>
<tr>
<td>Explosion limits (Vol. %) lower</td>
<td>n.av., upper: n.av.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>n.av.</td>
</tr>
<tr>
<td>Vapour density (Air = 1)</td>
<td>n.av.</td>
</tr>
<tr>
<td>Density (g/ml)</td>
<td>0.85</td>
</tr>
<tr>
<td>Solubility (in Water)</td>
<td>Immiscible</td>
</tr>
<tr>
<td>Partition coefficient, n-Octanol / Water</td>
<td>n.av.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>8.9 mm²/s (100°C)</td>
</tr>
<tr>
<td>Solvent content (m %)</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Thermal decomposition (°C)</td>
<td>n.av.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>n.av.</td>
</tr>
</tbody>
</table>

#### 9.2 Other information

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

Direct sources of heat.

#### 10.5 Incompatible materials

Incompatible with oxidizing agents. Incompatible with strong acids and bases.

#### 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

**Acute Health Effects:**

- **Inhalation:**  n.av.
- **Ingestion:** n.av.
- **Skin Contact:** n.av.
- **Skin corrosion / irritation:** Slight
- **Serious eye damage / irritation:** Causes serious eye irritation.
- **Respiratory or skin sensitisation:** None.
- **Germ cell mutagenicity:** n.av.
- **Carcinogenicity:** n.av.
- **Reproductive toxicity:** n.av.
- **STOT-single exposure:** n. av.
- **STOT-repeated exposure:** n. av.
- **Aspiration hazard:** n. av.
11.1.1 – Practical Experience
11.1.11 n.av.
11.1.12 Practical Experience
   Observations relevant for classification:
   None.
   Further Observations:
   Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing
   properties of the product.
   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
   No data is available on the product itself.

12.3 Bioaccumulative potential
   n.av.

12.4 Mobility in soil
   n.av.

12.5 Results of PBT and vPvB assessment
   This mixture contains no substances which are assessed to be PBT or vPvB.

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: None.
12.6.5 Other adverse effects: Not applicable.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
13.1.1 Recommendation: Waste - Code - No.:
   The Waste code should be assigned in discussion
   between the user, the producer and the waste
   disposal company.

   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**

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not a dangerous substance as defined in the above regulations.</td>
<td>Not a dangerous substance as defined in the above regulations.</td>
<td>Not a dangerous substance as defined in the above regulations.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Transport category: Classification Code: Hazard - No.: LQ:</th>
<th>Packing Instructions (Passenger)</th>
<th>Packing Instructions (Cargo)</th>
</tr>
</thead>
</table>

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

n.av.

15.2 Chemical safety assessment:

A chemical safety assessment has not been carried out.

**SECTION 16: Other information**

Text of H phases mentioned in Section 3

- 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.

This datasheet has been compiled in accordance with EU regulation 453/201.

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: CoSiChem AG, Ernst-Lemmer-Straße 23, D - 35041 Marburg, info@cosichem.de, +49-6421-886563

Receipt of Data: 22.06.2015, $clg_0273