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

1.1 Product identifier

Product name: Boge FoodLub-H1 P
Article-No.: 050016

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

Use of the Substance/Mixture: Lubricating oil
Recommended restrictions on use: Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company: BOGE Kompressoren GmbH&Co.KG
Otto-BOGE-Str. 1-7
33739 Bielefeld - Germany
Tel: +49 (0) 5206 601-0
Fax: +49 (0) 5206 601-200
info@boge.com

E-mail address of person responsible for the SDS: info@boge.com
Material Compliance Management

1.4 Emergency telephone number

Emergency telephone number: +44 1235 239670 (en)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.
2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.

Additional Labelling
EUH210 Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature: Synthetic hydrocarbon oil

Components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Index-No.</th>
<th>Classification</th>
<th>specific concentration limit</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Registration number</td>
<td>Notes</td>
<td>Acute toxicity estimate</td>
<td></td>
</tr>
<tr>
<td>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td>
<td>68411-46-1</td>
<td>270-128-1</td>
<td>01-2119491299-23-XXXX</td>
<td>Repr.2; H361f Aquatic Chronic3; H412</td>
<td>&gt;= 0.25 - &lt; 1</td>
<td></td>
</tr>
</tbody>
</table>

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
If inhaled

Obtain medical attention.
Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact

Take off all contaminated clothing immediately.
Get medical attention immediately if irritation develops and persists.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
Wash off immediately with plenty of water.

In case of eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
If eye irritation persists, consult a specialist.

If swallowed

Move the victim to fresh air.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
Do NOT induce vomiting.
Obtain medical attention.
Rinse mouth with water.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

No information available.

Risks

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media
High volume water jet.
5.2 Special hazards arising from the substance or mixture
Hazardous combustion products: Carbon oxides

5.3 Advice for firefighters
Special protective equipment for firefighters:
In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

Further information:
Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Personal precautions:
Evacuate personnel to safe areas.
Use personal protective equipment.
Ensure adequate ventilation.
Do not breathe vapours or spray mist.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions
Environmental precautions:
Try to prevent the material from entering drains or water courses.
Prevent further leakage or spillage if safe to do so.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up
Methods for cleaning up:
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections
For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Advice on safe handling:
Do not breathe vapours or spray mist.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Wash hands and face before breaks and immediately after
**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006 - DE

(Commission Regulation (EU) 2020/878)

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**Boge FoodLub-H1 P**

**Version** 2.0  **Revision Date:** 16.11.2022  **Date of last issue:** 01.08.2022  **Print Date:** 16.11.2022

**Date of first issue:** 03.06.2015

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Handling the product.
Do not get in eyes or mouth or on skin.
Do not get on skin or clothing.
Do not ingest.
Do not repack.
Do not re-use empty containers.
These safety instructions also apply to empty packaging which may still contain product residues.
Keep container closed when not in use.

**Hygiene measures** : Wash face, hands and any exposed skin thoroughly after handling.

---

**7.2 Conditions for safe storage, including any incompatibilities**

**Requirements for storage areas and containers** : Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

**Storage class (TRGS 510)** : 10, Combustible liquids

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**7.3 Specific end use(s)**

**Specific use(s)** : Specific instructions for handling, not required.

---

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

<table>
<thead>
<tr>
<th>Substance name</th>
<th>End Use</th>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td>
<td>Workers</td>
<td>Inhalation</td>
<td>Long-term systemic effects</td>
<td>0,31 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Skin contact</td>
<td>Long-term systemic effects</td>
<td>0,44 mg/kg bw/day</td>
</tr>
</tbody>
</table>

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Environmental Compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td>
<td>Fresh water</td>
<td>0,034 mg/l</td>
</tr>
<tr>
<td>Marine water</td>
<td></td>
<td>0,003 mg/l</td>
</tr>
<tr>
<td>Microbiological Activity in Sewage Treatment Systems</td>
<td>10 mg/l</td>
<td></td>
</tr>
<tr>
<td>Fresh water sediment</td>
<td></td>
<td>0,446 mg/kg</td>
</tr>
</tbody>
</table>

---
8.2 Exposure controls

Engineering measures
Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment
Eye protection: Safety glasses with side-shields

Hand protection
Material: Nitrile rubber
Break through time: > 10 min
Protective index: Class 1

Remarks: For prolonged or repeated contact use protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Respiratory protection: Not required; except in case of aerosol formation.

Filter type: Filter type A-P

Protective measures: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid

Colour: yellow

Odour: characteristic

Odour Threshold: No data available

Melting point/range: No data available
Boiling point/boiling range : No data available
Flammability (solid, gas) : Not applicable
Upper explosion limit / Upper flammability limit : No data available
Lower explosion limit / Lower flammability limit : No data available
Flash point : >= 240 °C
   Method: ISO 2592, open cup
Auto-ignition temperature : No data available
 Decomposition temperature : No data available
pH : Not applicable
Viscosity
   Viscosity, dynamic : No data available
   Viscosity, kinematic : 100 mm2/s (40 °C)
Solubility(ies)
   Water solubility : insoluble
   Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Vapour pressure : < 0,001 hPa (20 °C)
Relative density : 0,840 (20 °C)
   Reference substance: Water
   The value is calculated
Density : 0,84 g/cm3
   (20 °C)
Bulk density : Not applicable
Relative vapour density : No data available

9.2 Other information
Explosives : Not explosive
Oxidizing properties : No data available
Self-ignition : No data available
Evaporation rate : No data available
Sublimation point : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity
   No hazards to be specially mentioned.

10.2 Chemical stability
   Stable under normal conditions.

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

10.4 Conditions to avoid
   Conditions to avoid : No conditions to be specially mentioned.

10.5 Incompatible materials
   Materials to avoid : No materials to be especially mentioned.

10.6 Hazardous decomposition products
   No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:
Acute oral toxicity : Remarks: This information is not available.
Acute inhalation toxicity : Remarks: This information is not available.
Acute dermal toxicity : Remarks: This information is not available.

Components:
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:
Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
### Acute dermal toxicity

**LD50 (Rat):** > 2.000 mg/kg  
**Method:** OECD Test Guideline 402  
**Assessment:** The substance or mixture has no acute dermal toxicity

### Skin corrosion/irritation

**Product:**  
**Remarks:** This information is not available.

### Components:

**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

<table>
<thead>
<tr>
<th>Species</th>
<th>Rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment</td>
<td>No skin irritation</td>
</tr>
<tr>
<td>Method</td>
<td>OECD Test Guideline 404</td>
</tr>
<tr>
<td>Result</td>
<td>No skin irritation</td>
</tr>
</tbody>
</table>

### Serious eye damage/eye irritation

**Product:**  
**Remarks:** This information is not available.

### Components:

**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

<table>
<thead>
<tr>
<th>Species</th>
<th>Rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment</td>
<td>No eye irritation</td>
</tr>
<tr>
<td>Method</td>
<td>OECD Test Guideline 405</td>
</tr>
<tr>
<td>Result</td>
<td>No eye irritation</td>
</tr>
</tbody>
</table>

### Respiratory or skin sensitisation

**Product:**  
**Remarks:** This information is not available.

### Components:

**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

<table>
<thead>
<tr>
<th>Species</th>
<th>Guinea pig</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment</td>
<td>Did not cause sensitisation on laboratory animals.</td>
</tr>
<tr>
<td>Method</td>
<td>OECD Test Guideline 406</td>
</tr>
<tr>
<td>Result</td>
<td>Did not cause sensitisation on laboratory animals.</td>
</tr>
</tbody>
</table>

### Germ cell mutagenicity

**Product:**

<table>
<thead>
<tr>
<th>Genotoxicity in vitro</th>
<th>Remarks: No data available</th>
</tr>
</thead>
</table>
Genotoxicity in vivo : Remarks: No data available

Carcinogenicity

**Product:**
Remarks : No data available

Reproductive toxicity

**Product:**
Effects on fertility : Remarks: No data available
Effects on foetal development : Remarks: No data available

**Components:**
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:
Reproductive toxicity - Assessment : - Fertility -
Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

Repeated dose toxicity

**Product:**
Remarks : This information is not available.

Aspiration toxicity

**Product:**
No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

**Product:**
Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

**Product:**
Remarks : Information given is based on data on the components and the toxicology of similar products.
SECTION 12: Ecological information

12.1 Toxicity

**Product:**
- Toxicity to fish: Remarks: No data available
- Toxicity to daphnia and other aquatic invertebrates: Remarks: No data available
- Toxicity to algae/aquatic plants: Remarks: No data available
- Toxicity to microorganisms: Remarks: No data available

**Components:**

**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**
- Toxicity to fish: LC50 (Danio rerio (zebra fish)): > 100 mg/l
  Exposure time: 96 h
  Test Type: static test
  Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 51 mg/l
  Exposure time: 48 h
  Test Type: static test
  Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants: EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
  Exposure time: 72 h
  Test Type: static test
  Method: OECD Test Guideline 201

12.2 Persistence and degradability

**Product:**
- Biodegradability: Remarks: No data available
- Physico-chemical removability: Remarks: No data available

**Components:**

**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**
- Biodegradability: Test Type: aerobic
  Inoculum: activated sludge
  Result: Not rapidly biodegradable
  Biodegradation: 1 %
12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

**Components:**

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Partition coefficient: n-octanol/water : log Pow: > 5

12.4 Mobility in soil

**Product:**

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

**Product:**

Additional ecological information : No information on ecology is available.
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product:
The product should not be allowed to enter drains, water courses or the soil. Do not dispose of with domestic refuse. Dispose of as hazardous waste in compliance with local and national regulations. Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging:
Packaging that is not properly emptied must be disposed of as the unused product. Dispose of waste product or used containers according to local regulations.

The following Waste Codes are only suggestions:

Waste Code:
- unused product
- 13 02 06*, synthetic engine, gear and lubricating oils
- uncleaned packagings
- 15 01 10*, packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

<table>
<thead>
<tr>
<th>ADN</th>
<th>Not regulated as a dangerous good</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>Not regulated as a dangerous good</td>
</tr>
<tr>
<td>RID</td>
<td>Not regulated as a dangerous good</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not regulated as a dangerous good</td>
</tr>
<tr>
<td>IATA</td>
<td>Not regulated as a dangerous good</td>
</tr>
</tbody>
</table>

14.2 UN proper shipping name

<table>
<thead>
<tr>
<th>ADN</th>
<th>Not regulated as a dangerous good</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>Not regulated as a dangerous good</td>
</tr>
<tr>
<td>RID</td>
<td>Not regulated as a dangerous good</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not regulated as a dangerous good</td>
</tr>
<tr>
<td>IATA</td>
<td>Not regulated as a dangerous good</td>
</tr>
</tbody>
</table>

14.3 Transport hazard class(es)

| ADN   | Not regulated as a dangerous good |

13 / 17
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006 - DE
(Commission Regulation (EU) 2020/878)

Boge FoodLub-H1 P

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<thead>
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<tr>
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<td>01.08.2022</td>
<td>03.06.2015</td>
<td>16.11.2022</td>
</tr>
</tbody>
</table>

14.4 Packing group
- ADR : Not regulated as a dangerous good
- RID : Not regulated as a dangerous good
- IMDG: Not regulated as a dangerous good
- IATA : Not regulated as a dangerous good

14.5 Environmental hazards
- ADR : Not regulated as a dangerous good
- RID : Not regulated as a dangerous good
- IMDG: Not regulated as a dangerous good

14.6 Special precautions for user
Not applicable

14.7 Maritime transport in bulk according to IMO instruments
Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable
- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
- REACH - List of substances subject to authorisation (Annex XIV) (EU. REACH-Annex XIV) : Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer (EC 1005/2009) : Not applicable
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Regulation (EU) 2019/1021 on persistent organic pollu-
tants (recast) (EU POP):
Not applicable

Regulation (EC) No 649/2012 of the European Parlia-
ment and the Council concerning the export and import
of dangerous chemicals (EU PIC):
Not applicable

Seveso III: Directive 2012/18/EU of the European Parlia-
ment and of the Council on the control of major-accident
hazards involving dangerous sub-
stances:
Not applicable

Water hazard class (Germany):
WGK 1 slightly hazardous to water
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany):
Total dust:
Not applicable
Inorganic substances in powdered form:
Not applicable
Inorganic substances in vapour or gaseous form:
Not applicable
Organic Substances:
portion Class 1: 0.49 %
others: 99.52 %

Carcinogenic substances:
Not applicable
Mutagenic:
Not applicable
Toxic to reproduction:
Not applicable

Volatile organic compounds:
Directive 2010/75/EU of 24 November 2010 on industrial
emissions (integrated pollution prevention and control)
Not applicable

15.2 Chemical safety assessment
This information is not available.

SECTION 16: Other information

Full text of H-Statements
H361f: Suspected of damaging fertility.
H412: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

15 / 17
### Further information

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## Boge FoodLub-H1 P

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<tr>
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