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

1.1. Product identifier
Boge Syprem S Art. 599023400

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

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
Telefax: +49 5206 601-200
E-mail: info@boge.com
Internet: www.boge.com

1.4. Emergency telephone number:
Emergency telephone number (24h) + 44 1235 239670 (en)

Further Information
Reserved for industrial and professional use.

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
Avoid release to the environment.
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
High slip hazard because of leaking or spilled product.

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>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EC No</td>
<td>Index No</td>
</tr>
<tr>
<td></td>
<td>Classification (Regulation (EC) No 1272/2008)</td>
<td></td>
</tr>
<tr>
<td>68411-46-1</td>
<td>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td>
<td>&lt; 5 %</td>
</tr>
<tr>
<td>270-128-1</td>
<td>01-2119491299-23</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 3; H412</td>
<td></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>Specific Conc. Limits, M-factors and ATE</td>
<td></td>
</tr>
<tr>
<td>68411-46-1</td>
<td>270-128-1</td>
<td>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td>
<td>&lt; 5 %</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal: LD50 = 2000 mg/kg; oral: LD50 = 5000 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Further Information
Full text of H- and EUH-statements: see section 16.
SECTION 4: First aid measures

4.1. Description of first aid measures

   General information
   Seek medical attention if problems persist. No administration in cases of unconsciousness or cramps.

   After inhalation
   Move victim to fresh air. Put victim at rest and keep warm.

   After contact with skin
   Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap.

   After contact with eyes
   Rinse immediately carefully and thoroughly with eye-bath or water.

   After ingestion
   Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

   No information available.

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
   Co-ordinate fire-fighting measures to the fire surroundings.

   Unsuitable extinguishing media
   High power water jet.

5.2. Special hazards arising from the substance or mixture

   In case of fire may be liberated:
   Carbon dioxide (CO2).
   Carbon monoxide
   Nitrogen oxides (NOx).

5.3. Advice for firefighters

   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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

   General advice
   Ensure adequate ventilation of the storage area. Wear suitable protective clothing.

   For non-emergency personnel
   Special danger of slipping by leaking/spilling product.

   For emergency responders
   Self-protection of the first aider Remove affected person from the danger area and lay down. Do not leave affected person unattended. Remove all sources of ignition. Use appropriate respiratory protection.

6.2. Environmental precautions

   Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
Safety Data Sheet

according to Regulation (EC) No 1907/2006

**BOGE Syprem S Art. 599023400**

**Revision date:** 01.01.2023  
**Product code:** 599023400  
**Page 3 of 9**

---

**For containment**
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Clean contaminated articles and floor according to the environmental legislation.
Clean with detergents. Avoid solvent cleaners.

**Other information**
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

---

### 6.4. Reference to other sections
Disposal: see section 13

---

**SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

**Advice on safe handling**
Avoid oil mist
Use only in well-ventilated areas.
When using do not eat, drink or smoke.

**Advice on general occupational hygiene**
Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

**Further information on handling**
High slip hazard because of leaking or spilled product.

---

#### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels**
Keep container tightly closed.

**Hints on joint storage**
Keep away from food, drink and animal feedingstuffs.

**Further information on storage conditions**
Maximum period of storage (time): 2 years

---

#### 7.3. Specific end use(s)
Observe technical data sheet.
Reserved for industrial and professional use.

---

**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>68411-46-1</td>
<td>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td>
<td>Worker DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>0.6 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>0.08 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>0.14 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>0.04 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>oral</td>
<td>systemic</td>
<td>0.04 mg/kg bw/day</td>
</tr>
</tbody>
</table>

---

Revision No: 1,01 - Replaces version: 1,00  
IRL - en  
Print date: 21.02.2023
9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: light yellow

Test method

Melting point/freezing point: not applicable

9.2. Exposure controls

Appropriate engineering controls
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear eye/face protection.

Hand protection
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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
Wear full chemical protective clothing. Chemical resistant safety shoes.
Take off immediately all contaminated clothing.
Thorough skin-cleansing after handling the product.
Set out skin protection guidelines.

Respiratory protection
In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls
Do not allow to enter into surface water or drains.

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: light yellow
Safety Data Sheet

according to Regulation (EC) No 1907/2006

Boge Syprem S Art. 599023400
Product code: 599023400

Boiling point or initial boiling point and boiling range: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined
Flash point: 225 °C ASTM D 92
Auto-ignition temperature: not determined
Decomposition temperature: not determined
pH-Value: not applicable
Viscosity / kinematic:
(at 40 °C) not applicable ASTM D 7042

9.2. Other information
Information with regard to physical hazard classes
Explosive properties
not explosive.
Self-ignition temperature
Solid: not determined
Gas: not determined
Oxidizing properties
Not oxidising.

Other safety characteristics
Evaporation rate: not determined
Solid content: not determined
Viscosity / dynamic:
(at 40 °C) 15 - 220 mPa·s
Relative vapour density: not determined

SECTION 10: Stability and reactivity

10.2. Chemical stability
The product is chemically stable under recommended conditions of storage, use and temperature.

10.4. Conditions to avoid
none

10.5. Incompatible materials
The following must be prevented: Oxidizing agents, strong, acid.

10.6. Hazardous decomposition products
Hazardous decomposition products: none

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.
Data apply to the main component.

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>68411-46-1</td>
<td>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td>
<td>oral</td>
<td>LD50</td>
<td>5000 mg/kg</td>
<td>Rat</td>
<td>ECHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>2000 mg/kg</td>
<td>Rat</td>
<td>ECHA</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.

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.

Aspiration hazard

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

Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

11.2. Information on other hazards

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.

Other information

No further relevant information available.

SECTION 12: Ecological information

12.1. Toxicity

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

<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>68411-46-1</td>
<td>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>&gt; 71</td>
<td>96</td>
<td>Fish</td>
<td>OECD 203</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>&gt; 100</td>
<td></td>
<td>Algae</td>
<td>OECD 201</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>51 mg/l</td>
<td>48</td>
<td>Daphnia</td>
<td>OECD 202</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute bacteria toxicity</td>
<td>(EC50</td>
<td>&gt; 100</td>
<td></td>
<td>Bacteria</td>
<td>OECD 209</td>
<td></td>
</tr>
</tbody>
</table>
12.2. Persistence and degradability
The product has not been tested.

12.3. Bioaccumulative potential
The product has not been tested.

12.4. Mobility in soil
The product has not been tested.

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 components in this formulation do not meet the criteria for classification as PBT or vPvB.

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.

12.7. Other adverse effects
Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Disposal recommendations
Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging
Wash with plenty of water. Completely emptied packages can be recycled.

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
Personal protection equipment: see section 8

14.7. Maritime transport in bulk according to IMO instruments
No dangerous good in sense of this transport regulation.

**SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 1, 2, 3, 4, 6, 7, 8, 11, 12, 14, 15.

AICS (Australia), DSL (Canada), IECS (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**Abbreviations and acronyms**

- Acute Tox.: Akute Toxizität
- Aquatic Chronic: Langfristig (chronisch) gewässergefährdend
- Asp. Tox.: Aspirationsgefahr
- Repr.: Reproduktionstoxizität
- Skin Corr.: Ätzwirkung auf die Haut
- Skin Sens.: Sensibilisierung durch Hautkontakt
- Legende zu Abkürzungen in diesem Sicherheitsdatenblatt:
- ACGIH = American Conference of Governmental Industrial Hygienists
- ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road
- AICS = Australia
- ASTM = American Society for Testing and Materials
- BEL = Biological Exposure Limit
- BTEX = Benzol, Toluol, Ethylbenzol, Xylole
- CAS = Chemical Abstracts Service
- CEFIC = European Commission of the European Chemical Industry
- CLP = Classification, Labelling, and Packaging
- COC = Cleveland Combustibility Tester
- DIN = Deutsches Institut für Normung
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Observed Effect Level
- DSL = Domestic Substance List
- EC = European Commission
- EC50 = Effective Concentration 50
- ECHA = European Chemicals Agency
- EL50 = Effect Level 50
- ENCS = Japanese Substance List
- EWC = European Waste Code
- GHS = Global Harmonized System for Classification and Labelling of Chemicals
- IARC = International Agency for Research on Cancer
- IATA = International Air Transport Association
- IC50 = Hemmende Konzentration 50
- IL50 = Hemmniveau 50
Safety Data Sheet

according to Regulation (EC) No 1907/2006

Boge Syprem S Art. 599023400

Product code: 599023400

Revision date: 01.01.2023

IMDG = Internationale Maritime Gefahrgüter
INV = Chinesisches Chemikalien-Verzeichnis
IP346 = "Institute of Petroleum" (IP) Testmethode Nr. 346 zur Bestimmung von polyzyklischen Aromaten
DMSO-extrahierbar
KECI = Koreanisches Verzeichnis bestehender Chemikalien
LC50 = Letale Konzentration 50
LD50 = Letale Dosis 50
LL/EL/IL = Letale Belastung / Expositions grenze / Inhibitionsgrenze
LL50 = Letales Niveau 50
MARPOL = Übereinkommen zur Verhütung der Meeres-Verschmutzung durch Schiffe
NOEC/NOEL = Höchste Dosis oder Expositions konzentration einer Substanz ohne beobachtete Auswirkungen
OE_HPV = Occupational Exposure – High Production Volume (Berufliche Exposition – hohes Produktionsvolumen)
PBT = Persistent, bioakkumulierbar, toxisch
PICCS = Philippinisches Verzeichnis von Chemikalien und chemischen Substanzen
PNEC = Abgeschätzte Nicht-Effekt Konzentration
REACH = Registrierung, Bewertung, Zulassung und Beschränkung von Chemikalien
RID = Regulations Relating to International Carriage of Dangerous Goods by Rail (Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr)
SKIN_DES = Skin Designation (Kennzeichnung, dass Hautabsorption vermieden werden soll)
STEL = Kurzzeit Expositions grenze
TRA = Gezielte Risiko-Bewertung
TSCA = US-Amerikanisches Gesetz zur Chemikalienkontrolle
TWA = Zeitgewichteter Durchschnitt
vPvB = Sehr persistent und sehr bioakkumulierbar

Relevant H and EUH statements (number and full text)

H412 Harmful to aquatic life with long lasting effects.

Further Information

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.)