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

1.1. Product identifier

Boge Syprem SX Art. 599026

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
Otto-Boge-Straße 1-7
33739 Bielefeld
+49 5206 601-0
info@boge.com
www.boge.com

1.4. Emergency telephone number:

Emergency telephone number (24h) + 44 1235 239670 (en)
Giftnotruf Berlin: +49 (0) 30 / 30686 790

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

No information available.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
<th>Classification (Regulation (EC) No 1272/2008)</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>68411-46-1</td>
<td>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td>
<td>270-128-1</td>
<td>01-2119491299-23</td>
<td></td>
<td>Aquatic Chronic 3; H412</td>
<td>&lt; 5 %</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>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>

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. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

After ingestion
Do NOT induce vomiting.

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
See protective measures under point 7 and 8.

For non-emergency personnel
Take off immediately all contaminated clothing and wash it before reuse.

For emergency responders
The danger areas must be delimited and identified using relevant warning and safety signs. Move victim out of danger zone.

6.2. Environmental precautions
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
For containment
Prevent spread over a wide area (e.g. by containment or oil barriers).
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.

Further information on handling
When using do not eat, drink or smoke.
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.

7.3. Specific end use(s)
refer to chapter 1.2

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>
8.2. Exposure controls

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.

Thermal hazards
Remove all sources of ignition.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No</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>68411-46-1</td>
<td>Freshwater</td>
<td>0,0338 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water</td>
<td>0,00338 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Freshwater sediment</td>
<td>0,446 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine sediment</td>
<td>0,0446 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Micro-organisms in sewage treatment plants (STP)</td>
<td>10 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil</td>
<td>1,76 mg/kg</td>
</tr>
</tbody>
</table>

To date, no national critical limit values exist.
Safety Data Sheet
according to Regulation (EC) No 1907/2006

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Product code: 599026

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower explosion limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>225 °C ASTM D 92</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>not determined</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>not determined</td>
</tr>
<tr>
<td>pH-Value (at 20 °C)</td>
<td>not applicable DIN 51369</td>
</tr>
<tr>
<td>Viscosity / kinematic (at 20 °C)</td>
<td>not applicable ASTM D 7042</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>not determined</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour pressure (at 20 °C)</td>
<td>&lt; 0,1 hPa</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>not determined</td>
</tr>
<tr>
<td>Density (at 20 °C)</td>
<td>0,84 g/cm³ EN ISO 12185</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>not determined</td>
</tr>
</tbody>
</table>

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
Pour point: not determined
Viscosity / dynamic (at 40 °C): 15 - 220 mPa·s

Further Information
No information available.

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
Protect from direct sunlight. Protect against: heat.

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
Acute toxicity

<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>Rat</td>
<td>ECHA</td>
<td>OECD 401</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>Rat</td>
<td>ECHA</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

SECTION 12: Ecological information

12.1. Toxicity

<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 h</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 h</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>
<tr>
<td></td>
<td></td>
<td></td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
<td></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.

List of Wastes Code - residues/unused products
120107 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; mineral-based machining oils free of halogens (except emulsions and solutions); hazardous waste

List of Wastes Code - used product
120109 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; machining emulsions and solutions free of halogens; hazardous waste

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.

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.

14.5. 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
AICS (Australien), DSL (Kanada), IECSC (China), REACH (Europäische Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (Neuseeland), PICCS (Philippinen), 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 = Amerikanische Konferenz der staatlich-industriellen Hygieniker
ADR = Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße
AICS = Australisches Verzeichnis chemischer Substanzen
ASTM = Amerikanische Gesellschaft für Werkstoffprüfung
BEL = Biologische Expositionsgrenze
BTEX = Benzol, Toluol, Ethylbenzol, Xylole
CAS = Chemical Abstracts Service
CEFIC = Wirtschaftsverband der europäischen chemischen Industrie
CLP = Einstufung, Verpackung und Kennzeichnung
COC = Flammunktprüfer nach Cleveland
DIN = Deutsches Institut für Normung
DMEL = Abgeleitetes Minimal-Effekt Niveau
DNEL = Expositions- konzentration ohne Auswirkungen
DSL = Kanadisches Verzeichnis inländischer Substanzen
EC = Europäische Kommission
EC50 = Effektive Konzentration 50
ECHA = Europäische Chemikalien Agentur
EINECS = Europäisches Altstoffverzeichnis
EL50 = Effektives Niveau 50
ENCs = Japanisches Verzeichnis bestehender und neuer Chemikalien
EWC = Europäischer Abfall-Code
GHS = Global Harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien
IARC = Internationales Krebsforschungszentrum
IATA = Internationale Flug-Transport-Vereinigung
IC50 = Hemmkonzentration 50
IL50 = Hemmniveau 50
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 / Expositionsgrenze / 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)
Safety Data Sheet

according to Regulation (EC) No 1907/2006

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Product code: 599026
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PBT = Persistent, bioaccumulierbar, 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 Expositionsgrenze
TRA = Gezielte Risiko-Bewertung
TSCA = US-Amerikanisches Gesetz zur Chemikalienkontrolle
TWA = Zeitgewichteter Durchschnitt
vPvB = Sehr persistent und sehr bioaccumulierbar

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.)