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

1.1. Product identifier
Boge 3000 plus

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.
The preparation is not dangerous in the sense of Directive 1999/45/EC.

2.2. Label elements

Contains Alkarylcarbonsäurederivate (Alkarylcarboxylic acid derivatives). May produce an allergic reaction.
The components in this formulation do not meet the criteria for classification as PBT or vPvB.

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>Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity &gt;7 - &lt;20.5 cSt @40°C)</td>
<td>86-90 %</td>
</tr>
</tbody>
</table>

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>Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity &gt;7 - &lt;20.5 cSt @40°C)</td>
<td>86-90 %</td>
</tr>
</tbody>
</table>

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


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. First aider: Pay attention to self-protection!

After contact with eyes
In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

After ingestion
Do NOT induce vomiting.

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.

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus. Full protective suit.

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
Wear personal protection equipment. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

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. Prevent spread over a wide area (e.g. by containment or oil barriers). Treat the recovered material as prescribed in the section on waste disposal.
Collect in closed containers for disposal.

6.3. Methods and material for containment and cleaning up

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.
6.4. Reference to other sections

See protective measures under point 7 and 8.
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.

Further information on handling
Do not breathe mist/vapours/spray.
Chemical resistant safety shoes. High slip hazard because of leaking or spilled product. Do not put any product-impregnated cleaning rags into your trouser pockets.
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 the packing dry and well sealed to prevent contamination and absorption of humidity.
Recommended storage temperature: 0-50 °C / 32 - 122°F

Further information on storage conditions
Protect from sunlight. Store in a well-ventilated place.

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

Occupational exposure limits

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>ftm/cm³</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>Mineral Oil pure, highly &amp; severely refined</td>
<td>-</td>
<td>-</td>
<td>5</td>
<td>TWA (8 h)</td>
<td></td>
</tr>
</tbody>
</table>

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></td>
<td></td>
<td>Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity &gt;7 - &lt;20.5 cSt @40°C)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Hand protection
Protect skin by using skin protective cream.
Wash hands before breaks and after work.
Skine protection  
Chemical resistant safety shoes. Take off immediately all contaminated clothing.  
Thorough skin-cleansing after handling the product. Set out skin protection guidelines.

Respiratory protection  
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

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

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>light brown</td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
<td></td>
</tr>
<tr>
<td>Boiling point or initial boiling point and boiling range:</td>
<td>&gt; 280 °C estimated</td>
<td></td>
</tr>
<tr>
<td>Lower explosion limits:</td>
<td>1 vol. %</td>
<td></td>
</tr>
<tr>
<td>Upper explosion limits:</td>
<td>10 vol. %</td>
<td></td>
</tr>
<tr>
<td>Flash point:</td>
<td>230 °C ISO 2592</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature:</td>
<td>&gt;320 °C</td>
<td></td>
</tr>
<tr>
<td>pH-Value:</td>
<td>not applicable</td>
<td></td>
</tr>
<tr>
<td>Viscosity / kinematic:</td>
<td>46 mm²/s DIN EN ISO 3104</td>
<td></td>
</tr>
<tr>
<td>(at 40 °C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water:</td>
<td>&gt; 6</td>
<td></td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>&lt; 0.5 hPa</td>
<td></td>
</tr>
<tr>
<td>Density (at 15 °C):</td>
<td>0.868 g/cm³ EN ISO 12185</td>
<td></td>
</tr>
<tr>
<td>Relative vapour density:</td>
<td>&gt;1</td>
<td></td>
</tr>
</tbody>
</table>

9.2. Other information

Other safety characteristics
Pour point: -30 °C ISO 3016

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No known hazardous reactions.

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 reaction when handled and stored according to provisions.

10.4. Conditions to avoid
Protect against: heat.  
Protect from direct sunlight.

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.

### ATEmix tested

<table>
<thead>
<tr>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50, oral</td>
<td>&gt; 5000 mg/kg</td>
<td>Ratte</td>
</tr>
<tr>
<td>LD50, dermal</td>
<td>&gt; 5000 mg/kg</td>
<td>Kaninchen</td>
</tr>
</tbody>
</table>

### Toxicological data

#### Chemical name

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity &gt; 7 - &lt;20.5 cSt @40°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>oral</td>
</tr>
<tr>
<td></td>
<td>dermal</td>
</tr>
<tr>
<td></td>
<td>inhalation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>(4-Nonylphenoxy)essigsäure: May cause an allergic skin reaction.</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.
- (4-Nonylphenoxy)essigsäure: May cause an allergic skin reaction.

### 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
- No risks worthy of mention. Practical experience.
- The statement is derived from the properties of the single components.
- The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

### 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
- Based on available data, the classification criteria are not met.
- Additional ecotoxicological information The statement is derived from the properties of the components.
12.3. Bioaccumulative potential

log Pow: > 6

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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

List of Wastes Code - residues/unused products

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

List of Wastes Code - used product

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.
14.4. Packing group: No dangerous good in sense of these transport regulations.

Other applicable information (land transport)

Not restricted

Inland waterways transport (ADN)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.
14.4. Packing group: No dangerous good in sense of these transport regulations.

Other applicable information (inland waterways transport)

Not restricted

Marine transport (IMDG)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

Other applicable information (marine transport)

Not restricted

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

Other applicable information (air transport)

Not restricted
14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Danger releasing substance: No dangerous good in sense of these transport regulations.

14.6. Special precautions for user

Section 7: Handling and Storage
Section 8: Exposure controls/personal protection

14.7. Maritime transport in bulk according to IMO instruments

No

SECTION 15: Regulatory information

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

EU regulatory information

2010/75/EU (VOC): 0,0

2004/42/EC (VOC): 0,0

National regulatory information

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

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

AICS (Australien), DSL (Kanada), IECSC (China), REACH (Europäische Union), ENCS (Japan), ISHL (Japan), KECl (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

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 = Flammpunktprüfer 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
Safety Data Sheet
according to Regulation (EC) No 1907/2006

Boge 3000 plus
Product code: 5990-

Revision date: 01.01.2023

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 Expositionskonzentration einer Substanz ohne beobachtete Auswirkungen
OE_HP = Occupational Exposure – High Production Volume (Berufliche Exposition – hohes Produktionsvolumen)
OE_HPV = Occupational Exposure – High Production Volume (Berufliche Exposition – hohes Produktionsvolumen)
PB = 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 Expositionsgrenze
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)
H304 May be fatal if swallowed and enters airways.
EUH066 Repeated exposure may cause skin dryness or cracking.

Further Information
The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.
Abkürzungen und Akronymie siehe Verzeichnis unter http://abk.esdscom.eu

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor’s safety data sheet.)