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

BOGE SYPREM SF

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date</th>
<th>Date of last issue</th>
<th>Date of first issue</th>
<th>Print Date</th>
</tr>
</thead>
</table>

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

1.1 Product identifier
Product name: BOGE SYPREM SF
Article-No.: 050140

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
                        ester oil

Components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>specific concentration limit M-Factor Notes</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td>
<td>68411-46-1 270-128-1 01-2119491299-23-XXXX</td>
<td>Aquatic Chronic3; H412</td>
<td>&gt;= 1 - &lt; 2,5</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled: 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: Remove contaminated clothing. If irritation develops, get medical attention. In case of contact, immediately flush skin with plenty of water. Wash clothing before reuse. Thoroughly clean shoes before reuse.

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. 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, Nitrogen oxides (NOx)

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. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions: Do not allow contact with soil, surface or ground water. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

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:
- Avoid inhalation of vapour or 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 handling the product.
- 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

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

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Dodecene, homopolymer, hydrogenated (Consisting of 50 wt % or more of species of the same M.Wt)</td>
<td>Not Assigned</td>
<td>AGW (Alveolate fraction)</td>
<td>5 mg/m³</td>
<td>DE TRGS 900 (2012-01-12)</td>
</tr>
</tbody>
</table>

Peak-limit: excursion factor (category): 4;(II)
Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child.

### 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>1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich</td>
<td>Workers</td>
<td>Inhalation</td>
<td>Long-term systemic effects</td>
<td>5,29 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Dermal</td>
<td>Long-term systemic effects</td>
<td>41,67 mg/kg bw/day</td>
</tr>
<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>0,6 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Skin contact</td>
<td>Long-term systemic effects</td>
<td>0,08 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></td>
<td>Marine water</td>
<td>0,003 mg/l</td>
</tr>
<tr>
<td></td>
<td>Microbiological Activity in Sewage Treatment Systems</td>
<td>10 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>0,446 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td>0,045 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Soil</td>
<td>1,76 mg/kg</td>
</tr>
</tbody>
</table>

### 8.2 Exposure controls

#### Engineering measures

none

#### 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.
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. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : colourless

Odour : hydrocarbon-like

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 : \(\geq 240 \, ^\circ \text{C}\)

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: 46 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: 0.854 (20 °C)
Reference substance: Water
The value is calculated

Density: 0.85 g/cm³ (20 °C)

Bulk density: No data available

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: No data available

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

1-Dodecene, homopolymer, hydrogenated (Consisting of 50 wt % or more of species of the same M.Wt):  
Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
                   Method: OECD Test Guideline 401
                   GLP: yes
Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
                   Method: OECD Test Guideline 402
                   GLP: yes
                   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:
Species: Rabbit
Assessment: No skin irritation
Method: OECD Test Guideline 404
Result: No skin irritation

1-Dodecene, homopolymer, hydrogenated (Consisting of 50 wt % or more of species of the same M.Wt):
Species: Rabbit
Assessment: No skin irritation
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

Serious eye damage/eye irritation

Product:
Remarks: This information is not available.

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:
Species: Rabbit
Assessment: No eye irritation
Method: OECD Test Guideline 405
Result: No eye irritation

1-Dodecene, homopolymer, hydrogenated (Consisting of 50 wt % or more of species of the same M.Wt):
Species: Rabbit
Assessment: No eye irritation
Method: OECD Test Guideline 405
Result: No eye irritation
GLP: yes

Respiratory or skin sensitisation

Product:
Remarks: This information is not available.

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:
Species: Guinea pig
Assessment: Did not cause sensitisation on laboratory animals.
Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.
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1-Dodecene, homopolymer, hydrogenated (Consisting of 50 wt % or more of species of the same M.Wt):

Species: Guinea pig
Assessment: Does not cause skin sensitisation.
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.
GLP: yes

Germ cell mutagenicity

Product:
Genotoxicity in vitro: Remarks: No data available
Genotoxicity in vivo: Remarks: No data available

Components:
1-Dodecene, homopolymer, hydrogenated (Consisting of 50 wt % or more of species of the same M.Wt):
Germ cell mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Product:
Remarks: No data available

Components:
1-Dodecene, homopolymer, hydrogenated (Consisting of 50 wt % or more of species of the same M.Wt):
Carcinogenicity: No evidence of carcinogenicity in animal studies.

Reproductive toxicity

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

Components:
1-Dodecene, homopolymer, hydrogenated (Consisting of 50 wt % or more of species of the same M.Wt):
Reproductive toxicity - Assessment

- Fertility -
  No toxicity to reproduction
  - Teratogenicity -
  No effects on or via lactation

STOT - single exposure

Components:

1-Dodecene, homopolymer, hydrogenated (Consisting of 50 wt % or more of species of the same M.Wt):
Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Components:

1-Dodecene, homopolymer, hydrogenated (Consisting of 50 wt % or more of species of the same M.Wt):
Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:
Remarks : This information is not available.

Aspiration toxicity

Product:
This information is not available.

Components:

1-Dodecene, homopolymer, hydrogenated (Consisting of 50 wt % or more of species of the same M.Wt):
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.

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Product:**

Toxicity to fish : Remarks: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

**1-Dodecene, homopolymer, hydrogenated (Consisting of 50 wt % or more of species of the same M.Wt):**

Toxicity to fish : LC50 (Onchorhynchus mykiss (rainbow trout)): > 1.000 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
### Ecotoxicology Assessment

**Acute aquatic toxicity**: This product has no known ecotoxicological effects.

**Chronic aquatic toxicity**: This product has no known ecotoxicological effects.

### 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 %
  - Exposure time: 28 d
  - Method: OECD Test Guideline 301B
  - GLP: yes

### 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
1-Dodecene, homopolymer, hydrogenated (Consisting of 50 wt % or more of species of the same M.Wt):
Partition coefficient: n-octanol/water : log Pow: 5 (25 °C)
pH: 7
Method: OECD Test Guideline 107

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.

Components:
1-Dodecene, homopolymer, hydrogenated (Consisting of 50 wt % or more of species of the same M.Wt):
Assessment : Non-classified vPvB substance. Non-classified PBT substance

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 : Harmful to aquatic life with long lasting effects.

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

14.3 Transport hazard class(es)

<table>
<thead>
<tr>
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<tbody>
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<td>RID</td>
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</tr>
<tr>
<td>IMDG</td>
<td>Not regulated as a dangerous good</td>
</tr>
</tbody>
</table>
14.4 Packing group

- ADN: Not regulated as a dangerous good
- ADR: Not regulated as a dangerous good
- RID: Not regulated as a dangerous good
- IMDG: Not regulated as a dangerous good

14.5 Environmental hazards

- ADN: Not regulated as a dangerous good
- 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): Conditions of restriction for the following entries should be considered: 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (Number on list 52)

- 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 (EU) 2019/1021 on persistent organic pollutants (recast): Not applicable
(EU POP)

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


Water hazard class (Germany): WGK 2 obviously 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: < 0.01 %
others: 100 %

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
H412: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

DE TRGS 900: Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 900 / AGW: Time Weighted Average
Further information

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<table>
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