BOGE KOMPRESSOREN

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Boge 3000 HT plus

Revision date: 01.01.2023
Product code: 599017

Page 1 of 11

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

1.1. Product identifier
Boge 3000 HT plus

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

Use of the substance/mixture
Compressor and vacuum pump oil

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

Additional advice on labelling
Dangerous ingredients: Alkaryl carboxylic acid derivative
May produce an allergic reaction.

2.3. Other hazards

A health hazard is not expected when handled under normal conditions. Prolonged or repeated contact with the skin without proper cleansing may clog the skin pores and cause disorders such as oil acne/folliculitis. Used oil may contain harmful contaminants.

Signs and symptoms of oil acne/folliculitis may include the development of blackheads and pimples in the exposed areas of the skin. Ingestion may cause nausea, vomiting and/or diarrhea.

Observe mixture permissions according to "Altölverordnung (Waste oil directive)". Combustible liquid.

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>
<tr>
<td>68411-46-1</td>
<td>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td>
<td>1-3 %</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>Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity &gt;7 - &lt;20.5 cSt @40°C)</td>
<td>86-90 %</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>1-3 %</td>
</tr>
</tbody>
</table>

### 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.

**After inhalation**

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

**After contact with skin**

Remove contaminated, saturated clothing immediately.

IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. If skin irritation occurs: Get medical help.

**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**

IF SWALLOWED: Call a POISON CENTER if you feel unwell. Do NOT induce vomiting.

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

Signs and symptoms of oil acne/folliculitis may include the development of blackheads and pimples in the exposed areas of the skin. Ingestion may cause nausea, vomiting and/or diarrhea. IF INHALED: May cause drowsiness or dizziness.

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc. Ingestion causes nausea, weakness and central nervous system effects.
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

Hazardous combustion products may include: Complex mixture of solid and liquid particles and gases, including Carbon monoxide may be released in case of incomplete combustion. Unidentified organic and inorganic compounds.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protective suit.

Additional information
Wear a self-contained breathing apparatus and chemical protective clothing. 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.

Advice on general occupational hygiene
Personal protection equipment: see section 8
Further information on handling
Prolonged/repetitive skin contact may cause skin defattening or dermatitis.
Do not breathe mist/vapours/spray.
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
Polyethylenbehälter dürfen höheren Temperaturen aufgrund der Gefahr einer möglichen Verformung nicht ausgesetzt werden.

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>fib/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>5</td>
<td>TWA (8 h)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DNEL/DMEL values

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</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>inhalation</td>
<td>systemic</td>
<td>0,31 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Worker DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>0,44 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td>Worker DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>0,14 mg/m³</td>
</tr>
<tr>
<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>Consumer DNEL, long-term</td>
<td>oral</td>
<td>systemic</td>
<td>0,04 mg/kg bw/day</td>
</tr>
</tbody>
</table>
PNEC values

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>Environmental compartment</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>Freshwater</td>
<td>0.034 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>

8.2. Exposure controls

Appropriate engineering controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Individual protection measures, such as personal protective equipment

Hand protection

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Skin 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>Physical state:</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>light brown</td>
</tr>
<tr>
<td>Odour:</td>
<td>characteristic</td>
</tr>
<tr>
<td>Test method:</td>
<td>Boiling point or initial boiling point and boiling range:</td>
</tr>
<tr>
<td></td>
<td>&gt; 280 °C estimated</td>
</tr>
<tr>
<td>Lower explosion limits:</td>
<td>1 vol. %</td>
</tr>
<tr>
<td>Upper explosion limits:</td>
<td>10 vol. %</td>
</tr>
</tbody>
</table>
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Flash point: 248 °C ISO 2592
Auto-ignition temperature: >320 °C
pH-Value: not applicable
Viscosity / kinematic:
(at 40 °C) 68 mm²/s ASTM D 7042
Partition coefficient n-octanol/water: > 6
Vapour pressure: < 0,5 hPa
Density (at 15 °C): 0,880 g/cm³ EN ISO 12185
Relative vapour density: >1

9.2. Other information

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

Further Information
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>Rat</td>
</tr>
<tr>
<td>LD50, dermal</td>
<td>&gt; 5000 mg/kg</td>
<td>Rabbit</td>
</tr>
</tbody>
</table>
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Based on available data, the classification criteria are not met.

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
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.

Further information
After use, this oil must be sent to a used oil collecting location. Incorrect disposal of used oil endangers the environment. Every mixture with foreign substances such as solvents, brake- and cooling liquids is forbidden.

SECTION 12: Ecological information

12.1. Toxicity
The statement is derived form the properties of the components.
12.2. Persistence and degradability

Product is not easily biodegradable.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Method</th>
<th>Value</th>
<th>d</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>68411-46-1</td>
<td>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td>
<td>OECD 301 B</td>
<td>1%</td>
<td>28</td>
<td></td>
</tr>
</tbody>
</table>

Not easily bio-degradable (according to OECD-criteria).

12.3. Bioaccumulative potential

log Pow: > 6

Partition coefficient n-octanol/water

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>68411-46-1</td>
<td>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td>
<td>&gt; 5</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

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

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. Adsorption to solid soil phase is expected.

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

The substance has no ozone depleting potential.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations
Consult the local waste disposal expert about waste disposal. Do not allow to enter into surface water or drains. Dispose of contents/container to an appropriate recycling or disposal facility. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Non-contaminated packages may be recycled.

List of Wastes Code - residues/unused products

<table>
<thead>
<tr>
<th>No</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>130205</td>
<td></td>
<td>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</td>
</tr>
</tbody>
</table>

List of Wastes Code - used product
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<thead>
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<tbody>
<tr>
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<td></td>
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</table>

**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.

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**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.

**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.

**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.

**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.

14.4. **Packing group:** No dangerous good in sense of these transport regulations.

**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**

Wear personal protection equipment (refer to section 8). SECTION 8: Exposure controls/personal protection

**14.7. Maritime transport in bulk according to IMO instruments**

No information available.

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**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.

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**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan).
Abbreviations and acronyms

Acute Tox.: Akute Toxizität
Aquatic Chronic: Langfristig (chronisch) gewässergefährdend
Asp. Tox.: Aspirationsgefahren
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 = Flammpunktprüfer nach Cleveland
DIN = Deutsches Institut für Normung
DMEL = Abgeleitetes Minimal-Effekt Niveau
DNEL = Expositionskonzentration 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 Expositionskonzentration einer Substanz ohne beobachtete Auswirkungen
OE_HP = Occupational Exposure – High Production Volume (Berufliche Exposition – hohes Produktionsvolumen)
PBT = Persistent, bioakkumulierbar, toxisch
PICCS = Philippinisches Verzeichnis von Chemikalien und chemischen Substanzen
**Safety Data Sheet**

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<table>
<thead>
<tr>
<th><strong>Boge 3000 HT plus</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revision date:</strong> 01.01.2023</td>
</tr>
</tbody>
</table>

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  
vPvB = Sehr persistent und sehr bioakkumulierbar

**Relevant H and EUH statements (number and full text)**

| **H304** | May be fatal if swallowed and enters airways. |
| **H361f** | Suspected of damaging fertility. |
| **H412** | Harmful to aquatic life with long lasting effects. |
| **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 Akronyme 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.)*