

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Boge 3000 HT plus**

Revision date: 01.01.2023

Product code: 599017

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**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**

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#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
	Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)			86-90 %
	Asp. Tox. 1; H304 EUH066			
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene			1-3 %
	270-128-1		01-2119491299-23	
	Repr. 2, Aquatic Chronic 3; H361f H412			

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

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
		Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	86-90 %
	inhalation: Data lacking (gases); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg		
68411-46-1	270-128-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	1-3 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg		

#### Further Information

CAS-No.: 64742-53-6 (01-2119480375-34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48), 64742-65-0 (01-2119471299-27), 68037-01-4 (01-2119486452-34), 72623-86-0 (01-2119474878-16), 72623-87-1 (01-2119474889-13), 8042-47-5 (01-2119487078-27), 848301-69-9 (01-0000020163-82).

## 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.

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**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.  
Water fog. Extinguishing powder. Carbon dioxide. Foam.

**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

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#### Further information on handling

Prolonged/repetitive skin contact may cause skin defatting 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

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
-	Mineral Oil pure, highly & severely refined (Inhalable)	-	5		TWA (8 h)	

#### DNEL/DMEL values

CAS No	Substance			
DNEL type	Exposure route	Effect	Value	
	Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)			
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene			
Worker DNEL, long-term	inhalation	systemic	0,31 mg/m <sup>3</sup>	
Worker DNEL, long-term	dermal	systemic	0,44 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	0,14 mg/m <sup>3</sup>	
Consumer DNEL, long-term	dermal	systemic	0,04 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	0,04 mg/kg bw/day	

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#### PNEC values

CAS No	Substance	
Environmental compartment		Value
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	
Freshwater		0,034 mg/l
Marine water		0,00338 mg/l
Freshwater sediment		0,446 mg/kg
Marine sediment		0,0446 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		1,76 mg/kg

#### 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

Physical state: liquid  
Colour: light brown  
Odour: characteristic

Boiling point or initial boiling point and boiling range:

**Test method**  
> 280 °C estimated

Lower explosion limits:

1 vol. %

Upper explosion limits:

10 vol. %

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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 mm <sup>2</sup> /s	ASTM D 7042
Partition coefficient n-octanol/water:	> 6	
Vapour pressure:	< 0,5 hPa	
Density (at 15 °C):	0,880 g/cm <sup>3</sup>	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**

	Dose	Species	Source
LD50, oral	> 5000 mg/kg	Rat	
LD50, dermal	> 5000 mg/kg	Rabbit	

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)				
	oral	LD50 >2000 mg/kg	RAT		
	dermal	LD50 >2000 mg/kg	RABBIT		
	inhalation	Data lacking			
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene				
	oral	LD50 > 5000 mg/kg	Rat	ECHA	OECD 401
	dermal	LD50 > 2000 mg/kg	Rat	ECHA	

#### 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 from the properties of the components.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Danio rerio	OECD 203	
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Desmodesmus subspicatus	OECD 201	
	Acute crustacea toxicity	EC50 51 mg/l	48 h	Daphnia magna	OECD 202	
	Acute bacteria toxicity	(EC50 > 100 mg/l)		Bacteria	OECD 209	

#### 12.2. Persistence and degradability

Product is not easily biodegradable.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene				
	OECD 301 B	1%	28		
	Not easily bio-degradable (according to OECD-criteria).				

#### 12.3. Bioaccumulative potential

log Pow: > 6

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	> 5

#### 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

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



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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.

**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.

**14.5. 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.

**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**

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

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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:

Die in diesem Dokument verwendeten Standard-Abkürzungen und - Akronyme können in einschlägiger Referenzliteratur (z. B. wissenschaftlichen Wörterbüchern) bzw. auf Webseiten nachgeschlagen werden.

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 / Inhibitions-grenze

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\_V = Occupational Exposure – High Production Volume (Berufliche Exposition – hohes Produktionsvolumen)

PBT = Persistent, bioakkumulierbar, toxisch

PICCS = Philippinisches Verzeichnis von Chemikalien und chemischen Substanzen

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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.
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.)*