

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



UFI: JS31-N094-100K-R5AD  
Print date: 07.07.2025  
Version: 1-0

Kamareta Machine Cleaning spray  
Revision date: 07.07.2025  
Issue date: 07.07.2025

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

**1.1. Product identifier**

UFI (manufacturer/supplier) JS31-N094-100K-R5AD  
Trade name/designation Kamareta Machine Cleaning spray

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

**Relevant identified uses**

for cleaning

**Uses advised against**

There is no information available for use is discouraged facing.

**1.3. Details of the supplier of the safety data sheet**

**supplier (manufacturer/importer/downstream user/distributor)**

Kamareta AG  
Im Rossefeld 18  
9494 Schaan  
Liechtenstein

**Department responsible for information:** +423 (0) 791 30 40  
info@kamareta.com

E-mail (competent person)

**1.4. Emergency telephone number** 0887558000

Nationaal Vergiftigingen Informatie Centrum - UMC  
Utrecht

Exclusively intended for healthcare professionals in acute poisoning.

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Eye Irrit. 2 / H319 Serious eye damage/eye irritation Causes serious eye irritation.

**2.2. Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



**Warning**

**Hazard statements**

H319 Causes serious eye irritation.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves and eye protection/face protection.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/attention.

**Hazard components for labelling**

not applicable

**Supplemental hazard information**

not applicable

**2.3. Other hazards**

The mixture does not contain any "substances of very high concern" (SVHC)  $\geq 0,1$  %, as published by the European Chemical Agency (ECHA) according to Article 57 of Regulation (EC) No 1907/2006 (REACH).

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

**Description** Cleaning agent, alkaline

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

EC No.	REACH No.	weight-%
CAS No.	Designation	
Index No.	classification: // Remark	
200-661-7	01-2119457558-25	
67-63-0	propan-2-ol	5 - 10
603-117-00-0	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	
203-905-0	01-2119475108-36	
111-76-2	2-butoxyethanol	1 - 5
603-014-00-0	Acute Tox. 3 H331 / Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319	
	Acute toxicity estimate (ATE): ATE (oral): 1200 mg/kg bw / ATE (inhalation, vapour): 3,00 mg/L	

#### Additional information

Full text of classification: see section 16

#### Labelling for contents according to regulation (EC) No. 648/2004

weight-%	Ingredient
< 5 %	anionic surfactants
	perfumes

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Take off immediately all contaminated clothing. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice. In all cases of doubt, or when symptoms persist, seek medical advice.

##### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

##### Following skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

##### After eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

##### Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Keep victim calm. Do NOT induce vomiting. Call a physician immediately. If medical advice is needed, have product container or label at hand.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

#### 4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), spray mist, (water)

##### Unsuitable extinguishing media

strong water jet

#### 5.2. Special hazards arising from the substance or mixture

Inhaling hazardous decomposing products can cause serious health damage.

#### 5.3. Advice for firefighters

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Wear suitable protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Do not breathe vapours.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

### 6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Treat the recovered material as prescribed in the section on waste disposal. Provide adequate ventilation.

### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

#### Further information

non-combustible liquids that cannot be assigned to any of the above storage classes

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use, Follow the instructions for use on the label.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values:

propan-2-ol

Index No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

WEL, TWA: 999 mg/m<sup>3</sup>; 400 ppm

WEL, STEL: 1250 mg/m<sup>3</sup>; 500 ppm

2-butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

WEL, TWA: 123 mg/m<sup>3</sup>; 25 ppm

WEL, STEL: 246 mg/m<sup>3</sup>; 50 ppm

Remark: (may be absorbed through the skin)

BMGV, TWA: 240 mmol/mol creatinine

Remark: Butoxyacetic acid; urine; end of exposure or end of shift

#### Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

#### DNEL:

2-butoxyethanol

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Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

DNEL acute dermal, short-term (local), Workers: 89 mg/kg  
DNEL acute dermal, short-term (systemic), Workers: 89 mg/kg bw/day  
DNEL long-term dermal (local), Workers: 75 mg/kg  
DNEL long-term dermal (systemic), Workers: 75 mg/kg bw/day  
DNEL acute inhalative (local), Workers: 246 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Workers: 1091 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 98 mg/m<sup>3</sup>  
DNEL short-term oral (acute), Consumer: 13,4 mg/kg bw/day  
DNEL long-term oral (repeated), Consumer: 3,2 mg/kg bw/day  
DNEL acute dermal, short-term (local), Consumer: 44,5 mg/kg  
DNEL acute dermal, short-term (systemic), Consumer: 44,5 mg/kg bw/day  
DNEL long-term dermal (systemic), Consumer: 38 mg/kg  
DNEL acute inhalative (local), Consumer: 123 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Consumer: 426 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Consumer: 49 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 49 mg/m<sup>3</sup>

propan-2-ol

Index No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

DNEL long-term dermal (systemic), Workers: 888 mg/kg  
DNEL acute inhalative (systemic), Workers: 500 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 26 mg/kg  
DNEL acute inhalative (systemic), Consumer: 89 mg/m<sup>3</sup>

**PNEC:**

2-butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

PNEC aquatic, freshwater: 8,8 mg/L  
PNEC aquatic, marine water: 0,88 mg/L  
PNEC sediment, freshwater: 34,6 mg/kg  
PNEC sediment, marine water: 3,46 mg/kg  
PNEC, soil: 2,8 mg/kg  
PNEC sewage treatment plant (STP): 463 mg/L

propan-2-ol

Index No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

PNEC aquatic, freshwater: 140,9 mg/L  
PNEC aquatic, marine water: 140,9 mg/L  
PNEC sediment, freshwater: 552 mg/kg  
PNEC, soil: 28 mg/kg  
PNEC sewage treatment plant (STP): 2251 mg/L  
PNEC Secondary Poisoning: 160 mg/kg

**8.2. Exposure controls**

Provide good ventilation. This can be achieved with local or room suction.

**Personal protection equipment**

**Respiratory protection**

Not applicable.

Suitable respiratory protection apparatus: Respiratory protection is required for not sufficiently ventilated working places and during the spraying processing.

**Hand protection**

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material 0,4 mm Breakthrough time: 30 min

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin: Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

**Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

**Body protection**

Wear suitable protective clothing and gloves.

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#### **Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

### **SECTION 9: Physical and chemical properties**

#### **9.1. Information on basic physical and chemical properties**

<b>Physical state:</b>	<b>Liquid</b>
<b>Appearance:</b>	<b>Liquid</b>
<b>Colour:</b>	<b>refer to label</b>
<b>Odour:</b>	<b>characteristic</b>
<b>Odour threshold:</b>	<b>not determined</b>
<b>Melting point/freezing point:</b>	<b>not determined</b>
<b>Initial boiling point and boiling range:</b>	<b>not determined</b>
<b>Flammability</b>	<b>Combustible liquid.</b>
<b>Lower and upper explosion limit:</b>	
<b>Lower explosion limit:</b>	<b>1,1 Vol-%</b> Source: 2-butoxyethanol
<b>Upper explosion limit:</b>	<b>13,4 Vol-%</b> Source: propan-2-ol
<b>Flash point:</b>	<b>&lt; 55 °C</b> Method: EN ISO 13736
<b>Auto-ignition temperature:</b>	<b>not determined</b>
<b>Decomposition temperature:</b>	<b>not determined</b>
<b>pH at 20 °C:</b>	<b>10 - 10,5 / 100,0 weight-%</b>
<b>Kinematic viscosity (40°C):</b>	<b>&lt; 20 mm²/s</b>
<b>Viscosity at 20 °C:</b>	<b>&lt; 12 s 4 mm</b> Method: DIN 53211
<b>Solubility(ies):</b>	
<b>Water solubility at 20 °C:</b>	<b>completely miscible</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Vapour pressure at 20 °C:</b>	<b>23,6946 mbar</b>
<b>Density and/or relative density:</b>	
<b>Density at 20 °C:</b>	<b>0,97 g/cm³</b> Method: EN ISO 2811-1
<b>Relative density at 20 °C:</b>	<b>not determined</b>
<b>Bulk density:</b>	
<b>Relative vapour density:</b>	<b>not determined</b>
<b>particle characteristics:</b>	<b>not determined</b>

#### **9.2. Other information**

<b>Solid content:</b>	<b>0,21 weight-% / 0,20 L/kg / 0,19 Vol-%</b> Remark: Solid contentRemark
<b>Solvent:</b>	
<b>Organic solvents:</b>	<b>15 weight-%</b>
<b>aromatic hydrocarbons:</b>	<b>0 weight-%</b>
<b>Water:</b>	<b>85 weight-%</b>
<b>Drop point/drop range:</b>	
<b>Pour point:</b>	<b>0 °C</b>
<b>Sustaining combustion:</b>	<b>The sustaining combustion test for liquids was carried out (liquid does not sustain combustion). The result is negative.</b>

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<b>Explosive properties:</b>	<b>not applicable</b>
<b>Oxidising properties:</b>	<b>not applicable</b>
<b>Burning time:</b>	<b>not determined</b>
<b>Evaporation rate:</b>	<b>not determined</b>

#### SECTION 10: Stability and reactivity

**10.1. Reactivity**

No information available. No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

**10.3. Possibility of hazardous reactions**

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

**10.4. Conditions to avoid**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

**10.5. Incompatible materials**

not applicable

**10.6. Hazardous decomposition products**

none Thermal decomposition can lead to the escape of irritating gases and vapours. Hazardous decomposition byproducts may form with exposure to high temperatures.

#### SECTION 11: Toxicological information

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity, calculated:**

ATEmix, oral: > 5000 mg/kg

ATEmix, inhalative (vapours): > 20 mg/L

**Acute toxicity**

2-butoxyethanol

oral, LD50, Rat: > 300 mg/kg

dermal, LD50, Rabbit: > 1000 mg/kg

inhalative (vapours), LC50, Rat: > 10 mg/L (4 h)

oral, LD50, Guinea pig: 1414 mg/kg

inhalative (vapours), LC0: > 3,1 mg/L (1 h)

dermal, LD50, Guinea pig: > 2000 mg/kg

Method: OECD 402

propan-2-ol

oral, LD50, Rat: 5840 mg/kg

dermal, LD50, Rabbit: 13900 mg/kg

inhalative (vapours), LC50, Rabbit: 30 mg/L (6 h)

**Skin corrosion/irritation; Serious eye damage/eye irritation**

Causes serious eye irritation.

2-butoxyethanol

Skin, Rabbit (4 h)

Method: OECD 405

**Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Based on available data, the classification criteria are not met.

**STOT-single exposure; 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.

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#### **Practical experience/human evidence**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

#### **Overall assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

#### **Remark**

There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

#### **11.2. Information on other hazards**

##### **Endocrine disrupting properties**

No information available.

### **SECTION 12: Ecological information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

Do not allow to enter into surface water or drains.

#### **12.1. Toxicity**

##### **2-butoxyethanol**

Fish toxicity, LC50, *Lepomis macrochirus* (Bluegill): > 100 mg/L (96 h)

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 1550 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50, *Desmodesmus subspicatus*: > 100 mg/L

Fish toxicity, LC50, *Oncorhynchus mykiss* (Rainbow trout): 1474 mg/L (96 h)

Algae, EC50, *Pseudokirchneriella subcapitata*: 1840 mg/L (72 h)

Method: OECD 201

Bacteria toxicity, EC0, *Pseudomonas putida*: 700 mg/L (16 h)

##### **propan-2-ol**

Fish toxicity, LC50, *Pimephales promelas* (fathead minnow): 9840 mg/L (96 h)

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 9714 mg/L (48 h)

Algae toxicity, ErC50, *Desmodesmus subspicatus*: > 1000 mg/L (72 h)

#### **Long-term Ecotoxicity**

##### **2-butoxyethanol**

Fish toxicity, NOEL(C):, *Danio rerio* (zebrafish): > 100 mg/L (21 D)

Daphnia toxicity, NOEL(C):, *Daphnia magna* (Big water flea): 100 mg/L (21 D)

Method: OECD 211

#### **12.2. Persistence and degradability**

##### **2-butoxyethanol**

Activated sludge, Aerobic biological treatment: 90 % (28 D); Evaluation Readily biodegradable (according to OECD criteria).

Method: OECD 301E/ EEC 92/69/V, C.4-B

#### **12.3. Bioaccumulative potential**

##### **2-butoxyethanol**

Partition coefficient: n-octanol/water: 0,81 ; Evaluation Low

Method: OECD 107

Bioaccumulation; Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

#### **Bioconcentration factor (BCF)**

Toxicological data are not available.

#### **12.4. Mobility in soil**

Toxicological data are not available.

#### **12.5. Results of PBT and vPvB assessment**



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The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Endocrine disrupting properties**

No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product**

**Recommendation**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**Control report for waste code/ waste marking according to EAKV:**

200129\* Detergents containing hazardous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package**

**Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: Transport information**

**No dangerous good in sense of this transport regulation.**

**14.1. UN number or ID number**

not applicable

**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**

not applicable

**14.4. Packing group**

not applicable

**14.5. Environmental hazards**

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

**14.6. Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

**Further information**

**Land transport (ADR/RID)**

Tunnel restriction code

-

**Sea transport (IMDG)**

EmS-No.

not applicable

**UN Test L.2: Sustained combustibility test:**

The sustaining combustion test for liquids was carried out (liquid does not sustain combustion).  
The result is negative.

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

No transport as bulk according IBC - Code.

**SECTION 15: Regulatory information**

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

**EU legislation**

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]



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This product is not classified according to Directive 2012/18/EU.

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**

VOC-value (in g/L): 142

**National regulations**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

**Identification on the label/Trade name**

Child-resistant fastenings (EN/862/ISO 8317): No

Tactile warning according to EN/ISO 11683: No

**15.2. Chemical Safety Assessment**

**For the following substances of this mixture a chemical safety assessment has been carried out:**

EC No.	Designation	REACH No.
CAS No.		
200-661-7	propan-2-ol	01-2119457558-25
67-63-0		
203-905-0	2-butoxyethanol	01-2119475108-36
111-76-2		

**SECTION 16: Other information**

**Full text of classification in section 3:**

Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Acute Tox. 3 / H331	Acute toxicity (inhalative)	Toxic if inhaled.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.

**Classification procedure**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Eye Irrit. 2                      Serious eye damage/eye irritation                      Calculation method.

**Further information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.