

MATERIAL SAFETY DATA SHEET  
as per 1907/2006/EC, Article 31

753101

Reviewed on: 02.08.2017  
Printing date: 02.08.2017

**SECTION 01: Identification of the substance/mixture and of the company undertaking**

- **1.1 Product identifier**
- **Trade name:**  
fermol light and dark
- **SDB-group**  
18288
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation**  
Surface cleaning  
Surface protection
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Alfred Clouth  
Lackfabrik GmbH & Co. KG  
Otto-Scheugenpflug-Straße 2  
63073 Offenbach/Main  
Deutschland  
Tel + 49 69-89 00 7-0 / Fax + 49 69-89 00 7-143  
E-Mail: info@clou.de / www.clou.de
- **Further information obtainable from:**  
Laboratory:  
Tel.: +49 69 89 00 7 - 104 / Fax: +49 69 89 00 7 - 452  
E-Mail: cosima.sattler@clou.de
- **1.4 Emergency telephone number:**  
Giftinformationszentrum - Nord  
Universitätsklinikum  
Bereich Humanmedizin  
Robert Koch Str.40  
37075 Göttingen  
Deutschland  
Tel.: + 49 551 / 1 92 40

**SECTION 02: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08

Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways.



GHS02

Flam. Liq. 3 - H226 Flammable liquid and vapour.



GHS07

STOT SE 3 - H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

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- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms**



GHS08      GHS02      GHS07

- **Signal word**  
Danger

- **Hazard-determining components of labelling:**  
PARAFFIN PERLIQUIDUM / Naphtha (petroleum), hydrotreated heavy / 1-methoxy-2-propanol
- **Hazard statements**  
H304 May be fatal if swallowed and enters airways.  
H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking.
- **Precautionary statements**  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P310 Immediately call a POISON CENTER/doctor.  
P370+P378 In case of fire: Use for extinction: CO2, sand, extinguishing powder.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:**  
Not applicable.
- **vPvB:**  
Not applicable.

**SECTION 03: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:**  
Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS Number		%
64742-48-9	<b>Naphtha (petroleum), hydrotreated heavy</b> <i>EC number: 919-857-5</i> <i>Record number 01-2119463258-33</i> ⚠ <i>Asp. Tox. 1 - H304;</i> ⚠ <i>Flam. Liq. 3</i> <i>- H226;</i> ⚠ <i>STOT SE 3 - H336</i>	<b>25-50</b>
64742-13-8	<b>Distillates (petroleum), acid-treated middle</b> <i>(Nota N, -R45)</i> <i>EC number: 920-360-0</i> <i>Record number 01-2119448343-41</i>	<b>10-25</b>

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8042-47-5	<p> <b>Asp. Tox. 1 - H304</b></p> <p><b>PARAFFIN PERLIQUIDUM</b></p> <p><b>EC number: 232-455-8</b></p> <p><b>Record number 01-2119487078-27</b></p>	10-25
64742-48-9	<p> <b>Asp. Tox. 1 - H304</b></p> <p><b>Naphtha (petroleum), hydrotreated heavy</b></p> <p><b>EC number: 920-134-1</b></p> <p><b>Record number 01-2119480153-44</b></p> <p> <b>Asp. Tox. 1 - H304;</b>  <b>Flam. Liq. 3</b></p> <p><b>- H226;</b>  <b>STOT SE 3 - H336;</b> </p> <p><b>Aquatic Chronic 2 - H411</b></p>	10-25
107-98-2	<p><b>1-methoxy-2-propanol</b></p> <p><b>EC number: 203-539-1</b></p> <p><b>Record number 01-2119457435-35</b></p> <p> <b>Flam. Liq. 3 - H226;</b>  <b>STOT SE 3 -</b></p> <p><b>H336</b></p>	2,5-10

- **SVHC**

This product contains no substances in the SVHC list in a concentration > 0,1 %.

- **Additional information:**

For the wording of the listed risk phrases refer to section 16.

#### **SECTION 04: First aid measures**

- **4.1 Description of first aid measures**

- **General information:**

Take off or remove contaminated clothing immediately.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

Seek medical treatment in case of complaints.

- **After skin contact:**

Wash thoroughly with soap and water immediately and rinse well.

If skin irritation continues, consult a doctor.

- **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**

Do NOT induce vomiting! Keep the patient calm and call a doctor immediately.

- **Information for doctor:**

Treat symptomatically.

- **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

- **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

#### **SECTION 05: Firefighting measures**

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

Foam

Fire-extinguishing powder

Carbon dioxide

- **For safety reasons unsuitable extinguishing agents:**

Water with full jet

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- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Mouth respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray.  
Bring if possible, containers from the danger zone. With heating up, printing increase, Berst and danger of explosion.

### **SECTION 06: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Protection regulations (see point 7 and 8) to consider.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.  
Possible warning the neighbourhood.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### **SECTION 07: Handling and storage**

- **Handling:**
- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Use only in well ventilated areas.  
Smoking, drinking and eating are not permitted at the working place!  
Keep out of the reach of children.  
Do not breathe in fumes.  
Do not empty into drains.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Fumes can combine with air to form an explosive mixture.  
Vapours are heavier than air.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
The official regulations for the storage of paints and varnishes and Chemicals must be observed.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.
- **Storage class:**  
3
- **7.3 Specific end use(s)**  
For more information, please refer to the technical data sheet.

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**SECTION 08: Exposure controls/personal protection**

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

**107-98-2**                      **1-methoxy-2-propanol**

**WEL**

<b>Short-term value</b>	<b>560</b>	<b>mg/m3</b>
	<b>150</b>	<b>ppm</b>
<b>Long-term value</b>	<b>375</b>	<b>mg/m3</b>
	<b>100</b>	<b>ppm</b>

**Sk**

- **DNELs**

**64742-48-9**                      **Naphtha (petroleum), hydrotreated heavy**

- A, DNEL/DMEL: 900 mg/m3 (Consumer, Long Term Exposure)
- A, DNEL/DMEL: 1500 mg/m3 (Worker, Long Term Exposure)
- H, DNEL/DMEL: 300 mg/kg (Consumer, Long Term Exposure)
- H, DNEL/DMEL: 300 mg/kg (Worker, Long Term Exposure)
- Oral, DNEL/DMEL: 300 mg/kg (Consumer, Long Term Exposure)

**8042-47-5**                      **PARAFFIN PERLIQUIDUM**

- A, DNEL/DMEL: 160 mg/m3 (Worker, Long Term Exposure)
- H, DNEL/DMEL: 220 mg/kg (Worker, Long Term Exposure)

**64742-48-9**                      **Naphtha (petroleum), hydrotreated heavy**

- A, DNEL/DMEL: 185 mg/m3 (Consumer, Long Term Exposure)
- A, DNEL/DMEL: 871 mg/m3 (Worker, Long Term Exposure)
- H, DNEL/DMEL: 125 mg/kg (Consumer, Long Term Exposure)
- H, DNEL/DMEL: 208 mg/kg (Worker, Long Term Exposure)
- Oral, DNEL/DMEL: 125 mg/kg (Consumer, Long Term Exposure)

**107-98-2**                      **1-methoxy-2-propanol**

- A, DNEL/DMEL: 43,9 mg/m3 (Consumer, Long Term Exposure)
- A, DNEL/DMEL: 369 mg/m3 (Worker, Long Term Exposure)
- A, DNEL/DMEL: 553,5 mg/m3 (Worker, Short Term Exposure)
- H, DNEL/DMEL: 78 mg/kg (Consumer, Long Term Exposure)
- H, DNEL/DMEL: 183 mg/kg (Worker, Long Term Exposure)
- Oral, DNEL/DMEL: 3,3 mg/kg (Consumer, Long Term Exposure)

- **PNECs**

**107-98-2**                      **1-methoxy-2-propanol**

- PNEC: 10 mg/l (Fresh water)
- PNEC: 1 mg/l (Seawater)
- PNEC: 100 mg/l (Liberation - sporadic -)
- PNEC: 100 mg/l (Defecator)
- PNEC: 52,3 mg/kg (sediment (Fresh water))
- PNEC: 5,2 mg/kg (sediment (seawater))
- PNEC: 4,59 mg/kg (Bottom)

- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing
- **Respiratory protection: If the solvent concentration is above WEL limits, a breathing mask approved for this purpose must be worn. Filter A2/P2.**
- **Protection of hands: The glove material has to be impermeable and resistant to the product the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Preventive skin protection by use of skin-protecting agents is recommended. Protective gloves made of latex / neoprene. Degradation effect G to E Instalment of permeation E to ND (< 0.9 µg / cm<sup>2</sup> / min). Protective factor index: special subject class 6. After use of gloves apply skin-cleaning agents and skin cosmetics.**

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- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Eye protection: Safety glasses**
- **Body protection: Protective work clothing**

### **SECTION 09: Physical and chemical properties**

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

##### **General Information**

##### **Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Not usable on solvent preparations.

##### **Change in condition Phase transfer: fluid - solid**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range (approximately):</b>	Undetermined.
<b>Flash point (approximately):</b>	40,0 °C DIN 51 755
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature (approximately):</b>	240,00 °C (lowest value of the single components)
<b>Decomposition temperature:</b>	Not determined.
<b>Self-igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

##### **Explosion limits:**

<b>Lower:</b>	0,60 Vol %
<b>Upper:</b>	8,00 Vol %

**Oxidizing properties** Not determined

**Vapour pressure:** 50°C < 1.100 hPa

**Density:** 0,8000 g/cm<sup>3</sup>

**Vapour density** Not determined.

**Evaporation rate** Not applicable.

**Solubility in / Miscibility with water:** Organic solvents  
Insoluble.

**Partition coefficient (n-octanol/water):** Not determined.

##### **Viscosity (according to DIN 53211)**

<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	at 40,00 °C 20,00 mm <sup>2</sup> /s

**Solvent separation test:** < 3 %

##### **Solvent content (approximately):**

<b>Organic solvents (approximately):</b>	63,00 %
<b>VOC (EC)</b>	504,00 g/l
<b>Solids content (approximately):</b>	37,00 %

**9.2 Other information** No further relevant information available.

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### **SECTION 10: Stability and reactivity**

- **10.1 Reactivity**  
On storage in containers no traffic laws intolerances are to be expected with the tank shell.
- **10.2 Chemical stability**  
Stable at room temperature
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Forms explosive gases/fumes.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
- **10.4 Conditions to avoid**  
No further relevant information available.
- **10.5 Incompatible materials:**  
No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Flammable gases/vapours

### **SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**
  - 64742-48-9**      *Naphtha (petroleum), hydrotreated heavy*  
Oral, LD50: > 5000 mg/kg (rat)  
Dermal, LD50: > 5000 mg/kg (Rabbit)  
Inhalative, LC50/4h: > 5 mg/l (rat)
  - 64742-13-8**      *Distillates (petroleum), acid-treated middle (Nota N, -R45)*  
Oral, LD50: > 4150 mg/kg (rat)  
Dermal, LD50: > 2000 mg/kg (Rabbit)  
Inhalative, LC50/4h: 5,28 mg/l (rat) (Aerosol)
  - 8042-47-5**      **PARAFFIN PERLIQUIDUM**  
Oral, LD50: > 5000 mg/kg (rat)  
Dermal, LD50: > 2000 mg/kg (Rabbit)  
Inhalative, LC50/4h: > 5,0 mg/l (rat) (Aerosol)
  - 64742-48-9**      *Naphtha (petroleum), hydrotreated heavy*  
Oral, LD50: > 2000 mg/kg (rat)  
Dermal, LD50: > 2000 mg/kg (Rabbit)  
Inhalative, LC50/4h: > 5 mg/l (rat)
  - 107-98-2**      *1-methoxy-2-propanol*  
Oral, LD50: 4016 mg/kg (rat)  
Dermal, LD50: > 2000 mg/kg (Rabbit)  
Inhalative, LC50/4h: > 25,8 mg/l (rat)
- **Primary irritant effect:**
- **on the skin:**  
Frequent and prolonged skin contact can cause irritation and inflammation of the skin.  
Repeated exposure may cause skin dryness or cracking.
- **on the eye:**  
Irritating effect.
- **Sensitization:**  
No sensitising effects known.
- **Additional toxicological information:**

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The breathing in of solvent proportions above the value of M. W. C.-value can lead to health damages, such as irritating mucous membranes and respiratory organs, kidney and liver damages as well as to the impairment of the central nervous system. Signs and symptoms: Headache, dizziness and tiredness, myasthenia, numbing effect and also unconsciousness in exceptional cases. Longer and repeated skin contact can lead to drying out the skin or to skin irritations, respectively. Solvent splashes can lead to eye irritations and reversible damages. In such cases a physician should be consulted at once.

The product shows the following dangers based on the calculation method of the General EU Classification Guidelines for Substances and Mixtures according to the CLP Regulation in the latest version:

Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways. Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways.

STOT SE 3 - H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

In view of new information on the toxic and harmful effect of the contents, a certain risk from this preparation cannot be ruled out.

## **SECTION 12: Ecological information**

- **12.1 Toxicity**

- **Aquatic toxicity:**

**64742-13-8**      *Distillates (petroleum), acid-treated middle (Nota N, -R45)*

Dermal, L(E)C50: > 1000 mg/l (fish)

Dermal, L(E)C50: > 1000 mg/l (daphnie)

Dermal, NOEC: > 5000 mg/l (fish)

Dermal, NOEC: > 1400 mg/l (daphnie)

**8042-47-5**      **PARAFFIN PERLIQUIDUM**

Dermal, L(E)C50: > 1000 mg/l (fish)

Dermal, L(E)C50: >= 100 mg/l (alga)

Dermal, L(E)C50: > 100 mg/l (daphnie)

**64742-48-9**      *Naphtha (petroleum), hydrotreated heavy*

Dermal, L(E)C50: 3,6 mg/l (fish)

Dermal, L(E)C50: 22 - 46 mg/l (daphnie)

**107-98-2**      *1-methoxy-2-propanol*

Dermal, L(E)C50: > 1000 mg/l (fish)

Dermal, L(E)C50: > 1000 mg/l (alga)

Dermal, L(E)C50: 23300 mg/l (daphnie)

- **12.2 Persistence and degradability**

No further relevant information available.

- **12.3 Bioaccumulative potential**

No further relevant information available.

- **12.4 Mobility in soil**

No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:**

Harmful to fish

- **Additional ecological information:**

- **General notes:**

Harmful to aquatic organisms.

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 2 : hazardous for water

- **12.5 Results of PBT and vPvB assessment**

- **PBT:**

Not applicable.

- **vPvB:**

Not applicable.

- **12.6 Other adverse effects**

No further relevant information available.

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## **SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Waste disposal key:**  
08 02 99 wastes not otherwise specified
- **European waste catalogue**  
08  
WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS  
08 02  
wastes from MFSU of other coatings (including ceramic materials)  
08 02 99  
wastes not otherwise specified
- **Uncleaned packaging:**  
Disposal of uncleaned packagings according to European waste code number 15 01 10.
- **Recommendation:**  
Disposal according to 15 01 04 (metal).  
EAK-Nummer 15 01 02 / plastic  
Packaging can be reused or recycled after cleaning.
- **Recommended cleansing agents:**  
CLOU Cleaning agent thinner, CLOU Nitro-thinner 790, CLOU DD-29 Thinner

## **SECTION 14: Transport information**

- **14.1 UN-Number**
- ADR** UN1263
- IMDG** UN1263
- IATA** UN1263
- ADR** 1263 PAINT RELATED MATERIAL (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY)
- IMDG** PAINT RELATED MATERIAL
- IATA** PAINT RELATED MATERIAL
- **14.3 Transport hazard class(es)**
- ADR**
- Class** 3 Flammable liquids.
- Label**
- 
- IMDG**
- Class** 3 Flammable liquids.
- Label**
- 
- IATA**
- Class** 3 Flammable liquids.

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**Label**

- **14.4 Packing group**

**ADR** III  
**IMDG** III  
**IATA** III

- **14.5 Environmental hazards:**

Not applicable.

- **14.6 Special precautions for user**

Warning: Flammable liquids.

**Danger code (Kemler):** 30

**EMS Number:** F-E,S-E

- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

- **Transport/Additional information:**

Not applicable.

**Excepted quantities (EQ):** E1

**Limited quantities (LQ)** 5L

**Transport category** 3

**Tunnel restriction code** D/E

**IMDG**

**Limited quantities (LQ)** 5L

**Excepted quantities (EQ)** E1

- **UN "Model Regulation":**

UN 1263 PAINT RELATED MATERIAL (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY), 3, III

## SECTION 15: Regulatory information

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

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **REGULATION (EC) No 1907/2006 ANNEX XVII**

Conditions of restriction: 3

- **National regulations:**

- **Information about limitation of use:**

Pregnant and breastfeeding women and young persons.

- **Waterhazard class:**

Water hazard class 2 : hazardous for water.

- **15.2 Chemical safety assessment:**

For this product no appraisal of substance safety was carried out. Information from exposure scenarios of the following substances were integrated into section 1-16:

Naphtha (petroleum), hydrotreated heavy / EC number: 919-857-5

Naphtha (petroleum), hydrotreated heavy / EC number: 920-134-1

PARAFFIN PERLIQUIDUM

1-methoxy-2-propanol

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The compliance with the application conditions and measures for risk minimisation contained in this material safety data sheet ensures the conformity with the existing exposure scenarios.

**Storage class:**

3

**SECTION 16: Other information**

**Other information:**

• **Reasons for changes**

P-statements were adjusted according to the classification.

• **Relevant phrases**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

• **Department issuing MSDS:**

Laboratory / Department of Material Safety Data Sheets: Phone: +49 69 89 00 7 - 104 / Fax: +49 69 89 00 7 - 452 / E-Mail: cosima.sattler@clou.de

• **Information:**

The information given in this safety data sheet is based on the present level of knowledge, but does not represent an assurance of product characteristics.

The user is responsible for observing all necessary legal regulations.

For further information on the handling and application of the product(s), please refer to our label and the technical instructions leaflet or contact our Customer Service Department on Tel.: 49 69 / 89 00 7 -124, -107 or -227.

According to § 14 GefStoffV the employer must provide instruction to the employees affected on the basis of the operating instructions every year. The content and time of the instruction is to be recorded in writing and confirmed by signatures from those receiving instruction.

Please observe work safety measures in items 8 and 15.

Use only for intended purposes. Keep out of the reach of children.

• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

• **\* Data compared to the previous version altered.**