

Safety data sheet
as per 1907/2006/EC, Article 31

875601

Reviewed on: 11.07.2019
Printing date: 11.07.2019

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

- **1.1 Product identifier**
- **Trade name:**
L11 Aqua CLOU Holzlack
- **SDB-group**
19949-1
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation**
Wood coating
- **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
Germany
Tel.: +49 69 - 89 00 7 - 0 / Fax : +49 69 - 89 00 7 - 140
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 - 48104
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**
Skin Sens. 1 - H317 May cause an allergic skin reaction.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms**



GHS07

- **Signal word**
Warning

- **Hazard-determining components of labelling:**
1,2-benzisothiazol-3(2H)-one / 2-methyl-2H-isothiazol-3-one / a mixture of: 5-chloro-2-methyl-2 H - isothiazol-3- one [EC No 247-500-7] and 2-methyl-2 H - isothiazol-3-one [EC No 220-239-6] (3:1)
- **Hazard statements**
H317 May cause an allergic skin reaction.
- **Precautionary statements**

(continued on page 2)

Safety data sheet

as per 1907/2006/EC, Article 31

875601

Reviewed on: 11.07.2019
Printing date: 11.07.2019

PRODUCT : L11 Aqua CLOU Holzlack

(continued of page 1)

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
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		%
111-76-2	2-butoxyethanol EC number: 203-905-0 Record number 02-2119764899-11 ⚠ Acute Tox. 4 - H302, Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	< 5,0
2634-33-5	1,2-benzisothiazol-3(2H)-one EC number: 220-120-9 Record number 05-2114263215-55 ⚠ Eye Dam. 1 - H318; ⚠ Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Skin Sens. 1 - H317; ⚠ Aquatic Acute 1 - H400	< 0,05
2682-20-4	2-methyl-2H-isothiazol-3-one EC number: 220-239-6 Record number 05-2114483051-57 ⚠ Skin Corr. 1B - H314; ⚠ Acute Tox. 3 - H301-EUH071, Acute Tox. 3 - H311, Acute Tox. 2 - H330; ⚠ Skin Sens. 1 - H317; ⚠ Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	< 0,05
55965-84-9	a mixture of: 5-chloro-2-methyl-2 H - isothiazol-3- one [EC No 247-500-7] and 2-methyl-2 H - isothiazol-3-one [EC No 220-239-6] (3:1) EC number: 911-418-6 ⚠ Skin Corr. 1B - H314; ⚠ Acute Tox. 3 - H301, Acute Tox. 3 - H311, Acute Tox. 2 - H330; ⚠ Skin Sens. 1 - H317; ⚠ Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	< 0,0015

(continued on page 3)

Safety data sheet

as per 1907/2006/EC, Article 31

875601

Reviewed on: 11.07.2019
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PRODUCT : L11 Aqua CLOU Holzlack

(continued of page 2)

- **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:**
Drink copious amounts of water and provide fresh air. Call for 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:**
Product is not combustible.
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**
No special measures required.

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.
Dilute with plenty of water.
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).
- **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.

GB

(continued on page 4)

Safety data sheet

as per 1907/2006/EC, Article 31

875601

Reviewed on: 11.07.2019
Printing date: 11.07.2019

PRODUCT : L11 Aqua CLOU Holzlack

(continued of page 3)

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 empty into drains.
- **Information about fire - and explosion protection:**
No special measures required.
- **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 a cool place, free of frost and dry in well sealed original casks.
- **Storage class:**
12
- **7.3 Specific end use(s)**
For more information, please refer to the technical data sheet.

SECTION 08: Exposure controls/personal protection

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

111-76-2 2-butoxyethanol

WEL

Short-term value	50	ppm
Long-term value	25	ppm

Sk

- **DNELs**

111-76-2 2-butoxyethanol

inhalativ, DNEL/DMEL: 49 mg/m³ (Consumer, Long Term Exposure)
inhalativ, DNEL/DMEL: 98 mg/m³ (Worker, Long Term Exposure)
inhalativ, DNEL/DMEL: 123 mg/m³ (Consumer, Short Term Exposure)
inhalativ, DNEL/DMEL: 246 mg/m³ (Worker, Short Term Exposure)
Dermal, DNEL/DMEL: 38 mg/kg (Consumer, Long Term Exposure)
Dermal, DNEL/DMEL: 75 mg/kg (Worker, Long Term Exposure)
Dermal, DNEL/DMEL: 44,5 mg/kg (Consumer, Short Term Exposure)
Dermal, DNEL/DMEL: 89 mg/kg (Worker, Short Term Exposure)
Oral, DNEL/DMEL: 3,2 mg/kg (Consumer, Long Term Exposure)
Oral, DNEL/DMEL: 13,4 mg/kg (Consumer, Short Term Exposure)

2634-33-5 1,2-benzisothiazol-3(2H)-one

inhalativ, DNEL/DMEL: 1,2 mg/m³ (Consumer, Long Term Exposure)
inhalativ, DNEL/DMEL: 6,81 mg/m³ (Worker, Long Term Exposure)
Dermal, DNEL/DMEL: 0,345 mg/kg (Consumer, Long Term Exposure)
Dermal, DNEL/DMEL: 0,966 mg/kg (Worker, Long Term Exposure)

55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -

isothiazol-3-one [EC No 220-239-6] (3:1)

Dermal, DNEL/DMEL: 0,02 mg/kg (Consumer, Long Term Exposure)
Dermal, DNEL/DMEL: 0,02 mg/kg (Worker, Long Term Exposure)

(continued on page 5)

Safety data sheet

as per 1907/2006/EC, Article 31

875601

Reviewed on: 11.07.2019

Printing date: 11.07.2019

PRODUCT : L11 Aqua CLOU Holzlack

(continued of page 4)

Dermal, DNEL/DMEL: 0,04 mg/kg (Consumer, Short Term Exposure)
 Dermal, DNEL/DMEL: 0,04 mg/kg (Worker, Short Term Exposure)
 Oral, DNEL/DMEL: 0,09 mg/kg (Consumer, Long Term Exposure)
 Oral, DNEL/DMEL: 0,11 mg/kg (Consumer, Short Term Exposure)

• PNECs

111-76-2 2-butoxyethanol

PNEC: 8,8 mg/l (Fresh water)
 PNEC: 0,88 mg/l (Seawater)
 PNEC: 463 mg/l (Defecator)
 PNEC: 34,6 mg/kg (sediment (Fresh water))
 PNEC: 3,46 mg/kg (sediment (seawater))
 PNEC: 3,13 mg/kg (Bottom)

2634-33-5 1,2-benzisothiazol-3(2H)-one

PNEC: 0,011 mg/l (Fresh water)
 PNEC: 0,0011 mg/l (Seawater)
 PNEC: 1,03 mg/l (Defecator)
 PNEC: 0,000403 mg/l (periodic release)
 PNEC: 0,0499 mg/kg (sediment (Fresh water))
 PNEC: 0,00499 mg/kg (sediment (seawater))
 PNEC: 3 mg/kg (Bottom)

55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)

PNEC: 0,000049 mg/l (Fresh water)
 PNEC: 0,0000098 mg/l (Seawater)
 PNEC: 0,000009 mg/l (Bottom)
 PNEC: 0,000045 mg/l (Defecator)

• 8.2 Exposure controls

• Personal protective equipment:

• General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing
 Avoid contact with the skin.

• Respiratory protection: If the solvent concentration is above WEL limits, a breathing mask approved for this purpose must be worn. Filter A1/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 nitril. Degradation effect G to E. Instalment of permeation E to ND ($< 0.9 \mu\text{g} / \text{cm}^2 / \text{min}$). Protective factor index: special subject class 6. After use of gloves apply skin-cleaning agents and skin cosmetics.

• 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:

Form: Liquid
 Colour: Whitish

(continued on page 6)

Safety data sheet

as per 1907/2006/EC, Article 31

875601

Reviewed on: 11.07.2019
Printing date: 11.07.2019

PRODUCT : L11 Aqua CLOU Holzlack

(continued of page 5)

Odour:	Nearly odourless
Odour threshold:	Not determined.
pH-value:	at 20,00 °C 8,10 - 8,50 (pure)
Change in condition Phase transfer: fluid - solid	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	100,0 °C
Flash point (approximately):	Not applicable.
Flammability (solid, gas):	Not applicable.
Ignition temperature (approximately):	Not applicable
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is non combustible.
Explosive properties:	Product does not present an explosion hazard.
Oxidising properties	Not determined
Vapour pressure:	at 20,00 °C 23,0000 hPa
Density:	1,0300 g/cm3
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with water:	Fully miscible.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity (according to DIN 53211)	
Dynamic:	Not determined.
Kinematic:	at 20,00 °C 27,00 - 37,00 s DIN 4 mm
Solvent separation test:	< 3 %
Solvent content (approximately):	
Organic solvents (approximately):	5,00 %
VOC (EC)	52,00 g/l
Solids content (approximately):	31,00 %
9.2 Other information	No further relevant information available.

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**
No dangerous reactions known.
- **10.4 Conditions to avoid**
No further relevant information available.
- **10.5 Incompatible materials:**
No further relevant information available.
- **10.6 Hazardous decomposition products:**
No dangerous decomposition products known.

GB

(continued on page 7)

Safety data sheet

as per 1907/2006/EC, Article 31

875601

Reviewed on: 11.07.2019

Printing date: 11.07.2019

PRODUCT : L11 Aqua CLOU Holzlack

(continued of page 6)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

111-76-2 2-butoxyethanol

Oral, LD50: 1746 mg/kg (rat)

Dermal, LD50: 1100 mg/kg (Rabbit)

Inhalative, LC50/4h: 2-20 mg/l (rat)

2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral, LD50: 1193 mg/kg (rat)

2682-20-4 2-methyl-2H-isothiazol-3-one

Oral, LD50: 120 mg/kg (rat)

Dermal, LD50: 242 mg/kg (rat)

Inhalative, LC50/4h: 0,34 mg/l (rat)

55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)

Oral, LD50: 66 mg/kg (rat)

Dermal, LD50: 141 mg/kg (Rabbit)

- **Primary irritant effect:**

- **Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.

Irritant to skin and mucous membranes.

- **Serious eye damage/irritation**

Irritating effect.

- **Respiratory or skin sensitisation**

Sensitisation possible through skin contact.

Contains 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1). May produce an allergic reaction.

- **Additional toxicological information:**

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.

2-butoxyethanol and its acetate are skin resorptive and cause harmful effects to the blood.

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:

Skin Sens. 1 - H317 May cause an allergic skin reaction.

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

- **Germ cell mutagenicity**

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

- **Carcinogenicity**

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

- **Reproductive toxicity**

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.

GB

(continued on page 8)

Safety data sheet

as per 1907/2006/EC, Article 31

875601

Reviewed on: 11.07.2019
Printing date: 11.07.2019

PRODUCT : L11 Aqua CLOU Holzlack

(continued of page 7)

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

111-76-2**2-butoxyethanol**

Dermal, L(E)C50: 1474 mg/l (fish)
Dermal, L(E)C50: 1840 mg/l (alga)
Dermal, L(E)C50: 1550 mg/l (daphnie)
Dermal, NOEC: >100 mg/l (fish)
Dermal, NOEC: 100 mg/l (daphnie)

2634-33-5**1,2-benzisothiazol-3(2H)-one**

Dermal, L(E)C50: 2,15 mg/l (fish)
Dermal, L(E)C50: 0,155 mg/l (alga)
Dermal, L(E)C50: 2,9 mg/l (daphnie)
Dermal, NOEC: 1,3 mg/l (fish)
Dermal, NOEC: 0,084 mg/l (alga)

2682-20-4**2-methyl-2H-isothiazol-3-one**

Dermal, L(E)C50: 5,45 mg/l (fish)
Dermal, L(E)C50: 0,0695 mg/l (daphnie)

55965-84-9

a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)

Dermal, L(E)C50: 0,188 mg/l (fish)
Dermal, L(E)C50: 0,027 mg/l (alga)
Dermal, L(E)C50: 0,126 mg/l (daphnie)
Dermal, NOEC: 0,098 mg/l (fish)
Dermal, NOEC: 0,0012 mg/l (alga)
Dermal, NOEC: 0,004 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.

- **Additional ecological information:**

- **General notes:**

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

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

- **PBT:**

Not applicable.

- **vPvB:**

Not applicable.

- **12.6 Other adverse effects**

No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

The mentioned waste code number according to the European waste code catalogue are regarded as a recommendation. A final determining has to be effected in agreement with the regional place of waste disposal as well as the competent authorities.

- **Waste disposal key:**

08 01 12 / waste paint and varnish other than those mentioned in 08 01 11

- **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

(continued on page 9)

Safety data sheet

as per 1907/2006/EC, Article 31

875601

Reviewed on: 11.07.2019
Printing date: 11.07.2019

PRODUCT : L11 Aqua CLOU Holzlack

(continued of page 8)

08 01
wastes from MFSU and removal of paint and varnish
08 01 12
waste paint and varnish other than those mentioned in 08 01 11

- **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:**
Water, if necessary with cleansing agents.

SECTION 14: Transport information

- **14.1 UN-Number**

ADR	Void
IMDG	Void
IATA	Void
ADR	Void
IMDG	Void
IATA	Void
- **14.3 Transport hazard class(es)**

ADR	
Class	Void
IMDG	
Class	Void
IATA	
Class	Void
- **14.4 Packing group**

ADR	Void
IMDG	Void
IATA	Void
- **14.5 Environmental hazards:**
Not applicable.
- **14.6 Special precautions for user**
Not applicable.
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not applicable.
- **Transport/Additional information:**
Protect against frost!

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.
- **National regulations:**
- **Information about limitation of use:**

(continued on page 10)

Safety data sheet

as per 1907/2006/EC, Article 31

875601

Reviewed on: 11.07.2019
Printing date: 11.07.2019

PRODUCT : L11 Aqua CLOU Holzlack

(continued of page 9)

Pregnant and breastfeeding women and young persons.

• **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:

2-butoxyethanol

a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3- one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)

1,2-benzisothiazol-3(2H)-one

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:

12

SECTION 16: Other information

Other information:

• **Reasons for changes**

The dangerous goods classification guidelines according to the CLP Regulation (EG) No. 1272/2008 has changed (see point 2.)

• **Relevant phrases**

EUH071	Corrosive to the respiratory tract.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

• **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

• **Department issuing MSDS:**

Laboratory / Department of Material Safety Data Sheets:
Phone: +49 69 89 00 7 - 104 / Fax: +49 69 89 00 7 - 48104/
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)

(continued on page 11)

Safety data sheet
as per 1907/2006/EC, Article 31

875601

Reviewed on: 11.07.2019
Printing date: 11.07.2019

PRODUCT : L11 Aqua CLOU Holzlack

(continued of page 10)

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.**