	<u>undertaking</u>
• 1.1 Pro	duct identifier
Trade	name:
CLOU	Shellac Coating Lacquer
SDB-g	oup
19300	
1.2 Re	evant identified uses of the substance or mixture and uses advised against
	ation of the substance / the preparation
Wood	coating
1.3 Det	ails of the supplier of the safety data sheet
	acturer/Supplier:
Alfred (
	prik GmbH & Co. KG
	cheugenpflug-Straße 2
	Offenbach/Main
Deutsc	nano 9 69-89 00 7-0 / Fax + 49 69-89 00 7-143
	info@clou.de / www.clou.de
E man.	
	r information obtainable from:
Labora	
Fax:	one: + 49 69/89 00 7 - 0 + 49 69/89 00 7 - 143
	ergency telephone number:
Giftinfo	rmationszentrum - Nord
	itätsklinikum
	Humanmedizin
	Koch Str.40
	Göttingen
Deutsc	
	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



Flam. Liq. 2 - H225 Highly flammable liquid and vapour.

ty. GHS05

Eye Dam. 1 - H318 Causes serious eye damage.

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



(continued on page 2)

as per 1907/2006/EC, Article 31

741602 Reviewed on: 10.05.2017 Printing date: 10.05.2017

PRO	DUCT : CLOU Shellac Coating Lacquer
	(continued of page 1)
•	Hazard-determining components of labelling:
	butanol / butan-1-ol
•	Hazard statements
	H225 Highly flammable liquid and vapour.
	H318 Causes serious eye damage.
•	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.
	P243 Take precautionary measures against static discharge.
	P280 Wear protective gloves / eye 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.
	P310 Immediately call a POISON CENTER/doctor.
	P370+P378 In case of fire: Use for extinction: CO2, sand, extinguishing powder.
	2.3 Other hazards
•	Results of PBT and vPvB assessment
•	PBT:
	Not applicable.
•	vPvB:
	Not applicable.

Description Mixture of the second s	n: ne substances listed below with nonhazardous additions.	
• Dangerous	components:	
CAS Number		%
64-17-5	ethanol	50-100
	EC number: 200-578-6	
	Record number 01-2119457610-43	
	🚸 Flam. Liq. 2 - H225; 🚸 Eye Irrit.	
	2 - H319	
78-83-1	butanol	2,5-10
	EC number: 201-148-0	
	Record number 01-2119484609-23	
	🔗 Eye Dam. 1 - H318; 🚸 Flam. Liq. 3	
	- H226; 🚸 Skin Irrit. 2 - H315, STOT SE	
	3 - H335-H336	
71-36-3	butan-1-ol	< 2,5
	EC number: 200-751-6	
	Record number 01-2119484630-38	
	🧇 Eye Dam. 1 - H318; 🚸 Flam. Liq. 3	
	- H226; 🚸 Acute Tox. 4 - H302, Skin	
	Irrit. 2 - H315, STOT SE 3 - H335-H336	

(continued on page 3)

as per 1907/2006/EC, Article 31

741602 Reviewed on: 10.05.2017 Printing date: 10.05.2017

(continued of page 2)

PRODUCT : CLOU Shellac Coating Lacquer

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: Foam Fire-extinguishing powder Carbon dioxide
- 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. 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). Ensure adequate ventilation.
 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.

as per 1907/2006/EC, Article 31

741602 Reviewed on: 10.05.2017 Printing date: 10.05.2017

 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. CTION 08: Exposure controls/personal protection 8.1 Control parameters Ingredients with limit values that require monitoring at the workplace: 64-17-5 ethanol WEL Long-term value 1920 mg/n 1000 pp 78-83-1 butanol WEL Short-term value 231 mg/n 75 pp Long-term value 154 mg/n 50 pp 71-36-3 butan-1-ol WEL Short-term value 154 mg/n 50 pp Sk 				(continued of page
 7.1 Preciautions 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 furmes. Do not breathe in furmes. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Furmes 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:	ECTION 07:	Handling and sto	rage	
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75 pp Long-term value 154 mg/n 50 pp 71-36-3 butan-1-ol WEL Short-term value 154 mg/n 50 pp 50 pp 5k • DNELs 64-17-5 ethanol A, DNEL/DMEL: 114 mg/m3 (Consumer, Long Term Exposure) A, DNEL/DMEL: 950 mg/m3 (Worker, Long Term Exposure)	8.1 Control Ingredients 64-17-5 WEL Long	parameters with limit values tha <i>ethanol</i> g-term value	t require monitoring at the workp 1920	mg/m
Long-term value 154 mg/n 50 pp 71-36-3 butan-1-ol WEL Short-term value 154 mg/n 50 pp 5k • DNELs 64-17-5 ethanol A, DNEL/DMEL: 114 mg/m3 (Consumer, Long Term Exposure) A, DNEL/DMEL: 950 mg/m3 (Worker, Long Term Exposure)	8.1 Control Ingredients 64-17-5 WEL Long 78-83-1	parameters with limit values tha <i>ethanol</i> g-term value	t require monitoring at the workp 1920	mg/m
50 pp 71-36-3 butan-1-ol WEL Short-term value 154 mg/n 50 pp Sk • DNELs 64-17-5 ethanol A, DNEL/DMEL: 114 mg/m3 (Consumer, Long Term Exposure) A, DNEL/DMEL: 950 mg/m3 (Worker, Long Term Exposure)	8.1 Control Ingredients 64-17-5 WEL Long 78-83-1 WEL	parameters with limit values tha <i>ethanol</i> I-term value butanol	t require monitoring at the workp 1920 1000	mg/m ppi
71-36-3 butan-1-ol WEL Short-term value 50 50 50 50 50 50 50 50 50 50	8.1 Control Ingredients 64-17-5 WEL Long 78-83-1 WEL	parameters with limit values tha <i>ethanol</i> I-term value butanol	t require monitoring at the workp 1920 1000 231 75	mg/m ppi mg/m
WEL Short-term value 154 mg/n 50 pp Sk • DNELs 64-17-5 ethanol A, DNEL/DMEL: 114 mg/m3 (Consumer, Long Term Exposure) A, DNEL/DMEL: 950 mg/m3 (Worker, Long Term Exposure)	8.1 Control Ingredients 64-17-5 WEL Long 78-83-1 WEL Shor	parameters s with limit values tha <i>ethanol</i> g-term value butanol t-term value	t require monitoring at the workp 1920 1000 231 75 154	mg/m ppi mg/m ppi mg/m
Short-term value 154 mg/n 50 pp Sk • DNELs 64-17-5 ethanol A, DNEL/DMEL: 114 mg/m3 (Consumer, Long Term Exposure) A, DNEL/DMEL: 950 mg/m3 (Worker, Long Term Exposure)	 8.1 Control Ingredients 64-17-5 WEL Long 78-83-1 WEL Shor Long 	parameters s with limit values tha <i>ethanol</i> p-term value butanol t-term value	t require monitoring at the workp 1920 1000 231 75 154	mg/m ppi mg/m ppi mg/m
50 pp Sk • DNELs 64-17-5 ethanol A, DNEL/DMEL: 114 mg/m3 (Consumer, Long Term Exposure) A, DNEL/DMEL: 950 mg/m3 (Worker, Long Term Exposure)	 8.1 Control Ingredients 64-17-5 WEL Long 78-83-1 WEL Shor Long 71-36-3 	parameters s with limit values tha <i>ethanol</i> p-term value butanol t-term value	t require monitoring at the workp 1920 1000 231 75 154	mg/m ppi mg/m ppi mg/m
Sk • DNELs 64-17-5 ethanol A, DNEL/DMEL: 114 mg/m3 (Consumer, Long Term Exposure) A, DNEL/DMEL: 950 mg/m3 (Worker, Long Term Exposure)	 8.1 Control Ingredients 64-17-5 WEL Long 78-83-1 WEL Shor Long 71-36-3 WEL 	parameters s with limit values tha <i>ethanol</i> p-term value butanol t-term value p-term value butan-1-ol	t require monitoring at the workp 1920 1000 231 75 154 50	mg/m ppi mg/m ppi mg/m ppi
DNELs ethanol A, DNEL/DMEL: 114 mg/m3 (Consumer, Long Term Exposure) A, DNEL/DMEL: 950 mg/m3 (Worker, Long Term Exposure)	 8.1 Control Ingredients 64-17-5 WEL Long 78-83-1 WEL Shor Long 71-36-3 WEL 	parameters s with limit values tha <i>ethanol</i> p-term value butanol t-term value p-term value butan-1-ol	t require monitoring at the workp 1920 1000 231 75 154 50 154	mg/m ppi mg/m ppi mg/m ppi mg/m
A, DNEL/DMEL: 114 mg/m3 (Consumer, Long Term Exposure) A, DNEL/DMEL: 950 mg/m3 (Worker, Long Term Exposure)	 8.1 Control Ingredients 64-17-5 WEL Long 78-83-1 WEL Shor 71-36-3 WEL Shor 	parameters s with limit values tha <i>ethanol</i> p-term value butanol t-term value p-term value butan-1-ol	t require monitoring at the workp 1920 1000 231 75 154 50 154	mg/m ppi mg/m ppi mg/m ppi mg/m
A, DNEL/DMEL: 950 mg/m3 (Worker, Long Term Exposure)	 8.1 Control Ingredients 64-17-5 WEL Long 78-83-1 WEL Shor 71-36-3 WEL Shor 	parameters s with limit values tha <i>ethanol</i> p-term value butanol t-term value p-term value butan-1-ol	t require monitoring at the workp 1920 1000 231 75 154 50 154	mg/m ppi mg/m ppi mg/m ppi mg/m
	 8.1 Control Ingredients 64-17-5 WEL Long 78-83-1 WEL Shor Long 71-36-3 WEL Shor Shor Long Shor Shor Long Shor 	parameters s with limit values tha <i>ethanol</i> p-term value butanol t-term value p-term value butan-1-ol	t require monitoring at the workp 1920 1000 231 75 154 50 154	mg/m ppi mg/m ppi mg/m ppi mg/m
	 8.1 Control Ingredients 64-17-5 WEL Long 78-83-1 WEL Shor Long 71-36-3 WEL Shor Shor Sk ONELS 64-17-5 A, DNEL/DN 	parameters s with limit values tha <i>ethanol</i> g-term value butanol t-term value g-term value butan-1-ol t-term value ethanol MEL: 114 mg/m3 (Cons	t require monitoring at the workp 1920 1000 231 75 154 50 154 50 154 50	mg/m ppr mg/m ppr mg/m ppr mg/m
A, DNEL/DMEL: 1900 mg/m3 (Worker, Short Term Exposure) H. DNEL/DMEL: 206 mg/kg (Consumer, Long Term Exposure)	 8.1 Control Ingredients 64-17-5 WEL Long 78-83-1 WEL Shor Long 71-36-3 WEL Shor Shor Sk DNELs 64-17-5 A, DNEL/DN A, DNEL/DN A, DNEL/DN A, DNEL/DN 	parameters s with limit values tha <i>ethanol</i> g-term value butanol t-term value g-term value butan-1-ol t-term value butan-1-ol t-term value MEL: 114 mg/m3 (Cons MEL: 950 mg/m3 (Worl	t require monitoring at the workp 1920 1000 231 75 154 50 154 50 154 50 sumer, Long Term Exposure) ker, Long Term Exposure) sumer, Short Term Exposure)	

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PRODUCT : CLOU Shellac Coating Lacquer	
	(continued of page 4)
Oral, DNEL/DMEL: 87 mg/kg (Consumer, Long Term Exposure)	,
78-83-1 butanol A, DNEL/DMEL: 55 mg/m3 (Consumer, Long Term Exposure) A, DNEL/DMEL: 310 mg/m3 (Worker, Long Term Exposure)	
Oral, DNEL/DMEL: 25 mg/kg (Consumer, Long Term Exposure)	
71-36-3 butan-1-ol A, DNEL/DMEL: 55 mg/m3 (Consumer, Long Term Exposure) A, DNEL/DMEL: 310 mg/m3 (Worker, Long Term Exposure) Oral, DNEL/DMEL: 3125 mg/kg (Worker, Long Term Exposure)	
PNECs	
64-17-5 ethanol	
PNEC: 0,96 mg/l (Fresh water) PNEC: 0,79 mg/l (Seawater)	
PNEC: 2,75 mg/l (Liberation - sporadic -)	
PNEC: 580 mg/l (Defecator)	
PNEC: 3,6 mg/kg (sediment (Fresh water)	
PNEC: 2,9 mg/kg (sediment (seawater)	
PNEC: 0,63 mg/kg (Bottom) 78-83-1 butanol	
PNEC: 0,4 mg/l (Fresh water)	
PNEC: 0,04 mg/l (Seawater)	
PNEC: 1,52 mg/kg (sediment (Fresh water)	
PNEC: 0,152 mg/kg (sediment (seawater) 71-36-3 butan-1-ol	
71-36-3 butan-1-ol PNEC: 0,082 mg/l (Fresh water)	
PNEC: 0,0082 mg/l (Seawater)	
PNEC: 2476 mg/l (Defecator)	
PNEC: 0,178 mg/kg (sediment (Fresh water)	
 PNEC: 0,0178 mg/kg (sediment (seawater) Personal protective equipment: 	
General protective and hygienic measures:	
Immediately remove all soiled and contaminated clothing	
Avoid contact with the eyes and skin.	
 Respiratory protection: If the solvent concentration is above WEL limit approved for this purpose must be worn Filter A2/P2 	its, a breathing mask
 approved for this purpose must be worn. Filter A2/P2. Protection of hands: The glove material has to be impermeable and return the substance/ the preparation. Selection of the glove material on contract on the glove material on the glove material on contract on the glove material on the glove ma	
penetration times, rates of diffusion and the degradation. Protective g	loves made of latex /
neoprene. Degradation effect G to E Instalment of permeation E to N	
min). Protective factor index: special subject class 6 Preventive skin	
skin-protecting agents is recommended. After use of gloves apply ski skin cosmetics.	n-cleaning agents and
Material of gloves	
The selection of the suitable gloves does not only depend on the material, b	
of quality and varies from manufacturer to manufacturer. As the product is	
substances, the resistance of the glove material can not be calculated in ac to be checked prior to the application.	wance and has therefore
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:	

Liquid According to product specification Characteristic Not determined.

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Form:

Colour:

Odour:

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	(continued of page 5
pH-value:	Not usable on solvent preparations.
Change in condition Phase transfer: fluid - se	olid
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range (approximately):	78,0 °C
Flash point (approximately):	12,0 °C DIN 51 755
Flammability (solid, gaseous):	Not applicable.
Ignition temperature (approximately):	301,00 °C (lowest value of the single components)
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	3,30 Vol %
Upper:	19,00 Vol %
Oxidizing properties	Not determined
Vapour pressure:	50°C < 1.100 hPa
Density:	0,8910 g/cm3
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	Organic solvents
water:	Partly miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity (according to DIN 53211)	
Dynamic:	Not determined.
Kinematic:	at 20,00 °C 31,00 s ISO 3 mm
Solvent separation test:	< 3 %
Organic solvents (approximately):	79,00 %
VOC (EC)	704,00 g/l
Solids content (approximately):	21,00 %

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.
- No further relevant information available. • **10.6 Hazardous decomposition products:** Flammable gases/vapours

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PRODUCT : CLOU Shellac Coating Lacquer	
	(continued of page 6)
SECTION 11: Toxicological information	· · · ·
 11.1 Information on toxicological effects Acute toxicity: 	
 LD/LC50 values relevant for classification: 	
64-17-5 ethanol Oral, LD50: > 2000 mg/kg (rat) Dermal, LD50: > 2000 mg/kg (Rabbit) Inhalative, LC50/4h: > 20 mg/l (rat)	
78-83-1 <i>butanol</i> Oral, LD50: 2830 mg/kg (rat) Dermal, LD50: > 2000 mg/kg (Rabbit) Inhalative, LC50/4h: > 18,18 mg/l (rat)	
71-36-3 <i>butan-1-ol</i> Oral, LD50: 2292 mg/kg (rat) Dermal, LD50: 3430 mg/kg (Rabbit) Inhalative, LC50/4h: 8000 mg/l (rat)	
 Primary irritant effect: on the skin: 	
Frequent and prolonged skin contact can cause irritation and infla Repeated exposure may cause skin dryness or cracking.	ammation of the skin.
 on the eye: Irritating effect. Sensitization: 	
No sensitising effects known.	
 Additional toxicological information: The breathing in of solvent proportions above the value of M. W. damages, such as irritating mucous membranes and respiratory well as to the impairment of the central nervous system. Signs ar and tiredness, myasthenia, numbing effect and also unconscious and repeated skin contact can lead to drying out the skin or to sk splashes can lead to eye irritations and reversible damages. In su	organs, kidney and liver damages a nd symptoms: Headache, dizziness mess in exceptional cases. Longer in irritations, respectively. Solvent
consulted at once. The product shows the following dangers based on the calculatio Classification Guidelines for Substances and Mixtures according version:	
Eye Dam. 1 - H318 Causes serious eye damage.	
SECTION 12: Ecological information	
12.1 ToxicityAquatic toxicity:	
64-17-5 ethanol fish, L(E)C50: 15300 mg/l daphnie, L(E)C50: > 10000 mg/l	
78-83-1 <i>butanol</i> fish, L(E)C50: 1430 mg/l alga, L(E)C50: 1250 mg/l daphnie, L(E)C50: 1100 mg/l	

alga, NOEC: 53 mg/l daphnie, NOEC: 20 mg/l

71-36-3 *butan-1-ol* fish, L(E)C50: 1730-1910 mg/l alga, L(E)C50: > 500 mg/l daphnie, L(E)C50: 1983 mg/l

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- 12.4 Mobility in soil

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	(continued of page 7
No further relevant information available.	(contantica of page)
Additional ecological information:	
General notes:	
Do not allow product to reach ground water, water cou	irse or sewage system.
Water hazard class 1 : slightly hazardous for water	aree of contage cyclonic
 12.5 Results of PBT and vPvB assessment 	
• PBT:	
Not applicable.	
• vPvB:	
Not applicable.	
12.6 Other adverse effects	
No further relevant information available.	
ECTION 13: Disposal considerations	
 13.1 Waste treatment methods 	
 Recommendation 	
The mentioned waste code number according to the E	European waste code catalogue are regarded
a recommendation. A final determining has to be effect	
a recommendation. A final determining has to be effect waste disposal as well as the competent authorities.	
a recommendation. A final determining has to be effect waste disposal as well as the competent authorities.Waste disposal key:	cted in agreement with the regional place of
 a recommendation. A final determining has to be effect waste disposal as well as the competent authorities. Waste disposal key: 08 01 11 waste paint and varnish containing organic set of the set of the	cted in agreement with the regional place of
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SECTION 14: Transport information

• 14.1 UN-Number	
ADR	UN1263
IMDG	UN1263
ΙΑΤΑ	UN1263
 14.2 UN proper shipping name 	
ADR	1263 PAINT (ETHANOL (ETHYL ALCOHOL))
IMDG	PAINT
ΙΑΤΑ	PAINT
 14.3 Transport hazard class(es) ADR 	
Class	3 Flammable liquids.
	(continued on page 9)

	(continued of page
Label	3
IMDG	
Class	3 Flammable liquids.
Label	3
IATA	
Class	3 Flammable liquids.
	3
• 14 4 Packing group	3
14.4 Packing group ADR	11
IMDG	
IATA	
14.5 Environmental hazards:	
Not applicable.	
 14.6 Special precautions for user 	
Warning: Flammable liquids.	
Danger code (Kemler):	33
EMS Number:	F-E,S-E
• 14.7 Transport in bulk according to Not applicable.	Annex II of MARPOL73/78 and the IBC Code
• Transport/Additional information:	
Not applicable.	
Excepted quantities (EQ):	E2
Limited quantities (LQ)	5L
Transport category	2
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	E2
UN "Model Regulation":	
UN 1263 PAINT (ETHANOL (ETHYL)	ALCOHOL)), 3, II

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:

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PRODUCT : CLOU Shellac Coating Lacquer

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- Information about limitation of use: Pregnant and breastfeeding women and young persons.
- Waterhazard class:

Water hazard class 1 : slightly 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:

butanol

butan-1-ol

ethanol

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
 - H225 Highly flammable liquid and vapour.
 - H226 Flammable liquid and vapour.
 - H302 Harmful if swallowed.
 - H315 Causes skin irritation.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H335 May cause respiratory irritation.
 - H336 May cause drowsiness or dizziness.

• 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)

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PRODUCT : CLOU Shellac Coating Lacquer	
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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	
vPvB: very Persistent and very Bioaccumulative	