

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

837500

Reviewed on: 11.12.2018
Printing date: 11.12.2018**SECTION 01: Identification of the substance/mixture and of the company undertaking**

- **1.1 Product identifier**
- **Trade name:**
TOUCH-UP MARKERS (in blister pack)
- **SDB-group**
17712
- **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**
Flam. Liq. 2 - H225 Highly flammable liquid and vapour.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms**



GHS02

- **Signal word**
Danger
- **Hazard statements**
H225 Highly flammable liquid and vapour.
- **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.

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- **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:**

<i>CAS Number</i>		<i>%</i>
64-17-5	<i>ethanol</i> <i>EC number: 200-578-6</i> <i>Record number 01-2119457610-43</i> <i>substance with a Community workplace exposure limit.</i> ⚠ <i>Flam. Liq. 2 - H225</i>	50-100
1569-02-4	<i>1-ethoxypropan-2-ol</i> <i>EC number: 216-374-5</i> <i>Record number 01-2119462792-32</i> ⚠ <i>Flam. Liq. 3 - H226;</i> ⚠ <i>STOT SE 3 - H336</i>	< 16
107-98-2	<i>1-methoxy-2-propanol</i> <i>EC number: 203-539-1</i> <i>Record number 01-2119457435-35</i> ⚠ <i>Flam. Liq. 3 - H226;</i> ⚠ <i>STOT SE 3 - H336</i>	4,0

- **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:**
No special measures required.
- **After inhalation:**
Special first aid measures are not necessary.
- **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**

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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
- **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.

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:**
No special measures required.
- **6.3 Methods and material for containment and cleaning up:**
No special measures required.
- **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.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
- **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:**

64-17-5	ethanol		
WEL			
	Long-term value	1920	mg/m3
		1000	ppm
107-98-2	1-methoxy-2-propanol		
WEL			
	Short-term value	560	mg/m3
		150	ppm
	Long-term value	375	mg/m3
		100	ppm

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- **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)
 A, DNEL/DMEL: 950 mg/m³ (Consumer, Short Term Exposure)
 A, DNEL/DMEL: 1900 mg/m³ (Worker, Short Term Exposure)
 H, DNEL/DMEL: 206 mg/kg (Consumer, Long Term Exposure)
 H, DNEL/DMEL: 343 mg/kg (Worker, Long Term Exposure)
 Oral, DNEL/DMEL: 87 mg/kg (Consumer, Long Term Exposure)

1569-02-4 1-ethoxypropan-2-ol
 A, DNEL/DMEL: 190 mg/m³ (Consumer, Short Term Exposure)
 A, DNEL/DMEL: 317 mg/m³ (Worker, Short 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**

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)

1569-02-4 1-ethoxypropan-2-ol
 PNEC: 10 mg/l (Fresh water)
 PNEC: 10 mg/l (Seawater)
 PNEC: 1250 mg/l (Defecator)
 PNEC: 37,6 mg/kg (sediment (Fresh water))
 PNEC: 37,6 mg/kg (sediment (seawater))
 PNEC: 2,4 mg/kg (Bottom)

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))

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PNEC: 4,59 mg/kg (Bottom)

- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
No special measures required.
- **Respiratory protection: Not required.**
- **Protection of hands: Not required.**
- **Eye protection: Not required.**
- **Body protection: Light weight protective clothing**

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

<i>Form:</i>	Liquid
<i>Colour:</i>	Different according to colouri
<i>Odour:</i>	Like alcohol
<i>Odour threshold:</i>	Not determined.
<i>pH-value:</i>	Not usable on solvent preparations.

Change in condition Phase transfer: fluid - solid

<i>Melting point/freezing point:</i>	< 0,0 °C
<i>Initial boiling point and boiling range:</i>	78,0 °C
<i>Flash point (approximately):</i>	13,0 °C DIN 51 755
<i>Flammability (solid, gas):</i>	Not applicable.
<i>Ignition temperature (approximately):</i>	255,00 °C (lowest value of the single components)
<i>Decomposition temperature:</i>	Not determined.
<i>Auto-ignition temperature:</i>	Product is not selfigniting.
<i>Explosive properties:</i>	Product does not present an explosion hazard.
<i>Oxidising properties</i>	Not determined
<i>Vapour pressure:</i>	Not determined.
<i>Density:</i>	0,9000 g/cm3
<i>Vapour density</i>	Not determined.
<i>Evaporation rate</i>	Not applicable.
<i>Solubility in / Miscibility with water:</i>	Fully miscible.
<i>Partition coefficient: n-octanol/water:</i>	Not determined.
<i>Viscosity (according to DIN 53211)</i>	
<i>Dynamic:</i>	Not determined.
<i>Kinematic:</i>	Not determined.
<i>Solvent separation test:</i>	< 3 %
<i>Solvent content (approximately):</i>	
<i>Organic solvents (approximately):</i>	74,00 %
<i>9.2 Other information</i>	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**
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.

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)
 - 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:**
- **Skin corrosion/irritation**
Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Irritating effect.
- **Respiratory or skin sensitisation**
No sensitising effects known.
- **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.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
 - 64-17-5 ethanol**
Dermal, L(E)C50: 15300 mg/l (fish)

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Dermal, L(E)C50: > 10000 mg/l (daphnie)

1569-02-4 1-ethoxypropan-2-ol

Dermal, L(E)C50: 3,045 mg/l (alga)

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.

• **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**

Smaller quantities can be disposed of with household waste.

SECTION 14: Transport information

• **14.1 UN-Number**

ADR UN1263

IMDG UN1263

IATA UN1263

ADR 1263 PAINT (ETHANOL (ETHYL ALCOHOL))

IMDG PAINT

IATA PAINT

• **14.3 Transport hazard class(es)**

ADR
Class 3 Flammable liquids.

Label



IMDG
Class 3 Flammable liquids.

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Label**IATA****Class**

3 Flammable liquids.

Label

- **14.4 Packing group**

ADR

II

IMDG

II

IATA

II

- **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 Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

- **Transport/Additional information:**

Not applicable.

Excepted quantities (EQ):

E2

Limited quantities (LQ)

5L Die begrenzte Menge wird bei den Retuschierstiften immer eingehalten.

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

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.

- **15.2 Chemical safety assessment:**

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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:

ethanol

1-Ethoxypropan-2-ol

1-methoxy-2-propanol

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**

The safety data was only updated. There were no changes.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

- **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)

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)

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.**