

MATERIAL SAFETY DATA SHEET  
as per 1907/2006/EC, Article 31624500  
Reviewed on: 20.03.2015  
Printing date: 20.03.2015**SECTION 01: Identification of the substance/mixture and of the company undertaking**

- **Product identifier**
- **Trade name:**  
G1 RAPID SANDING SEALER
- **SDB-group**  
17594001
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**  
SU21 Consumer uses: Private households / general public / consumers  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category**  
PC9a Coatings and paints, thinners, paint removers
- **Process category**  
PROC10 Roller application or brushing  
PROC11 Non industrial spraying
- **Environmental release category**  
ERC8a Wide dispersive indoor use of processing aids in open systems
- **Application of the substance / the preparation**  
Special priming
- **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:  
Telephone: + 49 69/89 00 7 - 0  
Fax: + 49 69/89 00 7 - 143
- **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**

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



GHS02

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



GHS05

Eye Dam. 1 - H318 Causes serious eye damage.

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GHS07

STOT SE 3 - H336 May cause drowsiness or dizziness.

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

• **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



F+ Highly flammable  
Xi Irritant

R 11

Highly flammable.

R 36

Irritating to eyes.

R 52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 66

Repeated exposure may cause skin dryness or cracking.

R 67

Vapours may cause drowsiness and dizziness.

• **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

• **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

• **Label elements**

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



GHS02



GHS05



GHS07

• **Signal word**

Danger

• **Hazard-determining components of labelling:**

n-butyl acetate / isopropyl acetate / butanol / butan-1-ol

• **Hazard statements**

H225 Highly flammable liquid and vapour.

H318-EUH066 Causes serious eye damage. Repeated exposure may cause skin dryness or cracking.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

• **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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.

P280 Wear protective gloves / eye protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P310 Immediately call a POISON CENTER/doctor.  
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

- **Results of PBT and vPvB assessment**
- **PBT:**  
Not applicable.
- **vPvB:**  
Not applicable.

### SECTION 03: Composition/information on ingredients

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

- **Dangerous components:**

CAS NO.	Description	Index	R-phrases	%
123-86-4	<i>n</i> -butyl acetate EC number: 204-658-1 Record number 01-2119485493-29 10-66-67  Flam. Liq. 3 - H226;  STOT SE 3 - H336			10-25
108-21-4	isopropyl acetate EC number: 203-561-1 Record number 01-2119537214-46  F  Xi 11-36-66-67  Flam. Liq. 2 - H225;  Eye Irrit. 2 - H319-EUH066, STOT SE 3 - H336			10-25
67-63-0	propan-2-ol EC number: 200-661-7 Record number 01-2119457558-25  F  Xi 11-36-67  Flam. Liq. 2 - H225;  Eye Irrit. 2 - H319, STOT SE 3 - H336			10-25
64742-49-0	Naphtha (petroleum), hydrotreated light EC number: 920-750-0 Record number 01-2119473851-33  F  N  Xn 11-51/53-65-66-67  Flam. Liq. 2 - H225;  Asp. Tox. 1 - H304;  STOT SE 3 - H336;  Aquatic Chronic 2 - H411			2,5-10
78-83-1	butanol EC number: 201-148-0 Record number 01-2119484609-23  Xi 10-37/38-41-67  Eye Dam. 1 - H318;  Flam. Liq. 3 - H226;  Skin Irrit. 2 - H315, STOT SE			2,5-10

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71-36-3	<p><b>3 - H335-H336</b></p> <p><i>butan-1-ol</i></p> <p><b>EC number: 200-751-6</b></p> <p><b>Record number 01-2119484630-38</b></p> <p> <b>Xn</b></p> <p><b>10-22-37/38-41-67</b></p> <p> <b>Eye Dam. 1 - H318;</b>  <b>Flam. Liq. 3</b></p> <p><b>- H226;</b>  <b>Acute Tox. 4 - H302, Skin</b></p> <p><b>Irrit. 2 - H315, STOT SE 3 - H335-H336</b></p>	< 2,5
64-17-5	<p><b>ethanol</b></p> <p><b>EC number: 200-578-6</b></p> <p><b>Record number 01-2119457610-43</b></p> <p> <b>F</b></p> <p><b>11</b></p> <p> <b>Flam. Liq. 2 - H225;</b>  <b>Eye Irrit.</b></p> <p><b>2 - H319</b></p>	< 2,5
1330-20-7	<p><b>xylene</b></p> <p><b>EC number: 215-535-7</b></p> <p><b>Record number 01-2119486136-34</b></p> <p> <b>Xn</b></p> <p><b>10-20/21-38</b></p> <p> <b>Flam. Liq. 3 - H226;</b>  <b>Acute Tox.</b></p> <p><b>4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2</b></p> <p><b>- H315</b></p>	< 2,5

• **Additional information:**

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

## SECTION 04: First aid measures

- **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.
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

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

- **Extinguishing media**
- **Suitable extinguishing agents:**
  - Foam
  - Fire-extinguishing powder
  - Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:**
  - Water with full jet
- **Special hazards arising from the substance or mixture**
  - Formation of toxic gases is possible during heating or in case of fire.
- **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**

- **Personal precautions, protective equipment and emergency procedures**
  - Protection regulations (see point 7 and 8) to consider.
- **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.
- **Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Ensure adequate ventilation.
- **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:**
- **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.
- **Application by spraying:**
  - If any persons, regardless whether or not they actually perform spray-painting themselves, are working inside the spraying chamber during varnishing there is the risk that they will be exposed to aerosols and fumes of solvent. Particularly in regard to spraying mist it is rather improbable that the maximum permissible values for dust particles will be constantly met. Under such conditions it is recommended to wear breathing masks (half masks with particle filter of at least filter class P 2 or force-ventilated breathing masks) until aerosol and solvent fumes concentrations will be again under the limit value for exposition.

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- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Observe official regulations for the storage of paints and chemicals.
- **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:**  
3A
- **Specific end use(s)**  
For more information, please refer to the technical data sheet.

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

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

CAS No.	Designation of material		
123-86-4	<i>n-butyl acetate</i>		
<i>WEL</i>			
	<i>Short-term value</i>	966	mg/m3
		200	ppm
	<i>Long-term value</i>	724	mg/m3
		150	ppm
108-21-4	<i>isopropyl acetate</i>		
<i>WEL</i>			
	<i>Short-term value</i>	849	mg/m3
		200	ppm
67-63-0	<i>propan-2-ol</i>		
<i>WEL</i>			
	<i>Short-term value</i>	1250	mg/m3
		500	ppm
	<i>Long-term value</i>	999	mg/m3
		400	ppm
78-83-1	<i>butanol</i>		
<i>WEL</i>			
	<i>Short-term value</i>	231	mg/m3
		75	ppm
	<i>Long-term value</i>	154	mg/m3
		50	ppm
71-36-3	<i>butan-1-ol</i>		
<i>WEL</i>			
	<i>Short-term value</i>	154	mg/m3
		50	ppm
	<i>Sk</i>		
64-17-5	<i>ethanol</i>		
<i>WEL</i>			
	<i>Long-term value</i>	1920	mg/m3
		1000	ppm
1330-20-7	<i>xylene</i>		
<i>WEL</i>			
	<i>Short-term value</i>	441	mg/m3
		100	ppm
	<i>Long-term value</i>	220	mg/m3

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50

ppm

*Sk; BMGV*

• **DNELs**

**123-86-4**                    *n-butyl acetate*

Inhalative, DNEL/DMEL: 12 mg/m<sup>3</sup> (Consumer, Long Term Exposure)  
Inhalative, DNEL/DMEL: 48 mg/m<sup>3</sup> (Worker, Long Term Exposure)  
Inhalative, DNEL/DMEL: 859,7 mg/m<sup>3</sup> (Consumer, Short Term Exposure)  
Inhalative, DNEL/DMEL: 960 mg/m<sup>3</sup> (Worker, Short Term Exposure)  
Dermal, DNEL/DMEL: 3,4 mg/kg (Consumer, Long Term Exposure)  
Dermal, DNEL/DMEL: 7 mg/kg (Worker, Long Term Exposure)  
Oral, DNEL/DMEL: 3,4 mg/kg (Consumer, Long Term Exposure)

**108-21-4**                    *isopropyl acetate*

Inhalative, DNEL/DMEL: 252 mg/m<sup>3</sup> (Consumer, Long Term Exposure)  
Inhalative, DNEL/DMEL: 420 mg/m<sup>3</sup> (Worker, Long Term Exposure)  
Inhalative, DNEL/DMEL: 510 mg/m<sup>3</sup> (Consumer, Short Term Exposure)  
Inhalative, DNEL/DMEL: 850 mg/m<sup>3</sup> (Worker, Short Term Exposure)  
Dermal, DNEL/DMEL: 26 mg/kg (Consumer, Long Term Exposure)  
Dermal, DNEL/DMEL: 43 mg/kg (Worker, Long Term Exposure)  
Oral, DNEL/DMEL: 26 mg/kg (Consumer, Long Term Exposure)

**67-63-0**                    *propan-2-ol*

Inhalative, DNEL/DMEL: 89 mg/m<sup>3</sup> (Consumer, Long Term Exposure)  
Inhalative, DNEL/DMEL: 500 mg/m<sup>3</sup> (Worker, Long Term Exposure)  
Dermal, DNEL/DMEL: 319 mg/kg (Consumer, Long Term Exposure)  
Dermal, DNEL/DMEL: 888 mg/kg (Worker, Long Term Exposure)  
Oral, DNEL/DMEL: 26 mg/kg (Consumer, Long Term Exposure)

**64742-49-0**                *Naphtha (petroleum), hydrotreated light*

Inhalative, DNEL/DMEL: 608 mg/m<sup>3</sup> (Consumer, Long Term Exposure)  
Inhalative, DNEL/DMEL: 2035 mg/m<sup>3</sup> (Worker, Long Term Exposure)  
Dermal, DNEL/DMEL: 699 mg/kg (Consumer, Long Term Exposure)  
Dermal, DNEL/DMEL: 773 mg/kg (Worker, Long Term Exposure)  
Oral, DNEL/DMEL: 699 mg/kg (Consumer, Long Term Exposure)

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

Inhalative, DNEL/DMEL: 43,9 mg/m<sup>3</sup> (Consumer, Long Term Exposure)  
Inhalative, DNEL/DMEL: 369 mg/m<sup>3</sup> (Worker, Long Term Exposure)  
Inhalative, DNEL/DMEL: 553,5 mg/m<sup>3</sup> (Worker, Short Term Exposure)  
Dermal, DNEL/DMEL: 18,1 mg/kg (Consumer, Long Term Exposure)  
Dermal, DNEL/DMEL: 50,6 mg/kg (Worker, Long Term Exposure)  
Oral, DNEL/DMEL: 3,3 mg/kg (Consumer, Long Term Exposure)

**78-83-1**                    *butanol*

Inhalative, DNEL/DMEL: 55 mg/m<sup>3</sup> (Consumer, Long Term Exposure)  
Inhalative, DNEL/DMEL: 310 mg/m<sup>3</sup> (Worker, Long Term Exposure)  
Oral, DNEL/DMEL: 25 mg/kg (Consumer, Long Term Exposure)

**71-36-3**                    *butan-1-ol*

Inhalative, DNEL/DMEL: 55 mg/m<sup>3</sup> (Consumer, Long Term Exposure)  
Inhalative, DNEL/DMEL: 310 mg/m<sup>3</sup> (Worker, Long Term Exposure)  
Oral, DNEL/DMEL: 3125 mg/kg (Worker, Long Term Exposure)

**64-17-5**                    *ethanol*

Inhalative, DNEL/DMEL: 114 mg/m<sup>3</sup> (Consumer, Long Term Exposure)  
Inhalative, DNEL/DMEL: 950 mg/m<sup>3</sup> (Worker, Long Term Exposure)  
Inhalative, DNEL/DMEL: 950 mg/m<sup>3</sup> (Consumer, Short Term Exposure)  
Inhalative, DNEL/DMEL: 1900 mg/m<sup>3</sup> (Worker, Short Term Exposure)  
Dermal, DNEL/DMEL: 206 mg/kg (Consumer, Long Term Exposure)  
Dermal, DNEL/DMEL: 343 mg/kg (Worker, Long Term Exposure)  
Oral, DNEL/DMEL: 87 mg/kg (Consumer, Long Term Exposure)

**1330-20-7**                *xylene*

Inhalative, DNEL/DMEL: 14,8 mg/m<sup>3</sup> (Consumer, Long Term Exposure)  
Inhalative, DNEL/DMEL: 77 mg/m<sup>3</sup> (Worker, Long Term Exposure)  
Inhalative, DNEL/DMEL: 174 mg/m<sup>3</sup> (Consumer, Short Term Exposure)  
Inhalative, DNEL/DMEL: 289 mg/m<sup>3</sup> (Worker, Short Term Exposure)  
Dermal, DNEL/DMEL: 108 mg/kg (Consumer, Long Term Exposure)

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Dermal, DNEL/DMEL: 180 mg/kg (Worker, Long Term Exposure)  
Oral, DNEL/DMEL: 1,6 mg/kg (Consumer, Long Term Exposure)

• **PNECs**

**123-86-4**                    *n-butyl acetate*  
PNEC: 0,18 mg/l (Fresh water)  
PNEC: 0,018 mg/l (Seawater)  
PNEC: 0,36 mg/l (Liberation - sporadic -)  
PNEC: 35,6 mg/l (Defecator)  
PNEC: 0,981 mg/kg (sediment (Fresh water))  
PNEC: 0,0981 mg/kg (sediment (seawater))  
PNEC: 0,0903 mg/kg (Bottom)

**108-21-4**                    *isopropyl acetate*  
PNEC: 0,22 mg/l (Fresh water)  
PNEC: 0,022 mg/l (Seawater)  
PNEC: 1,25 mg/kg (sediment (Fresh water))  
PNEC: 0,125 mg/kg (sediment (seawater))

**67-63-0**                    *propan-2-ol*  
PNEC: 140,9 mg/l (Fresh water)  
PNEC: 140,9 mg/l (Seawater)  
PNEC: 552 mg/kg (sediment (Fresh water))  
PNEC: 552 mg/kg (sediment (seawater))  
PNEC: 28 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*  
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))

**64-17-5**                    *ethanol*  
PNEC: 0,96 mg/l (Fresh water)  
PNEC: 0,79 mg/l (Seawater)  
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)

**1330-20-7**                    *xylene*  
PNEC: 0,327 mg/l (Fresh water)  
PNEC: 0,327 mg/l (Seawater)  
PNEC: 6,58 mg/l (Defecator)  
PNEC: 12,46 mg/kg (sediment (Fresh water))  
PNEC: 12,46 mg/kg (sediment (seawater))  
PNEC: 2,31 mg/kg (Bottom)

• **Ingredients with biological limit values:**

**1330-20-7**                    *xylene*

**BMGV**

**650 mmol/mol creatinine**

**Medium: urine**

**Sampling time: post shift**

**Parameter: methyl hippuric acid**

• **Personal protective equipment:**

• **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Avoid contact with the eyes and skin.

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- **Respiratory protection:** If the solvent concentration is above WEL limits, a breathing mask approved for this purpose must be worn. Filter A/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. 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 Clean skin thoroughly after work and put on skin protecting cream.
- **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**

<i>Information on basic physical and chemical properties</i>	
<b>General Information</b>	
<b>Appearance:</b>	
<b>Form:</b>	Fluid
<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.
<b>Change in condition Phase transfer: fluid - solid</b>	
<b>Boiling point/Boiling range (approximately):</b>	78,0 °C
<b>Flash point (approximately):</b>	2,0 °C DIN 51 755
<b>Ignition temperature (approximately):</b>	180,00 °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.
<b>Explosion limits:</b>	
<b>Lower:</b>	1,20 Vol %
<b>Upper:</b>	12,00 Vol %
<b>Oxidizing properties</b>	Not determined
<b>Vapour pressure:</b>	50°C < 1.100 hPa
<b>Density:</b>	0,8960 g/cm <sup>3</sup>
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not applicable.
<b>Solubility in / Miscibility with water:</b>	Organic solvents Insoluble.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity (according to DIN 53211)</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	at 20,00 °C 45,00 s DIN 4 mm
<b>Solvent separation test:</b>	< 3 %
<b>Organic solvents (approximately):</b>	79,00 %
<b>Solids content (approximately):</b>	21,00 %

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

- **Reactivity**  
On storage in containers no traffic laws intolerances are to be expected with the tank shell.
- **Chemical stability**  
Stable at room temperature
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **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.
- **Conditions to avoid**  
No further relevant information available.
- **Incompatible materials:**  
No further relevant information available.
- **Hazardous decomposition products:**  
Flammable gases/vapours

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

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**
  - 123-86-4**            *n-butyl acetate*  
Oral, LD50: 10760 mg/kg (rat)  
Dermal, LD50: > 14112 mg/kg (Rabbit)  
Inhalative, LC50/4h: 23,4 mg/l (rat)
  - 108-21-4**            *isopropyl acetate*  
Oral, LD50: 6750 mg/kg (rat)  
Dermal, LD50: 17400 mg/kg (Rabbit)  
Inhalative, LC50/4h: 50,6 mg/l (rat)
  - 67-63-0**            *propan-2-ol*  
Oral, LD50: 4750 mg/kg (rat)  
Dermal, LD50: 13400 mg/kg (Rabbit)  
Inhalative, LC50/4h: 30 mg/l (rat)
  - 64742-49-0**        *Naphtha (petroleum), hydrotreated light*  
Oral, LD50: > 5000 mg/kg (rat)  
Dermal, LD50: > 2920 mg/kg (rat)  
Dermal, LD50: > 2000 mg/kg (Rabbit)  
Inhalative, LC50/4h: > 20 mg/l (rat)
  - 78-83-1**            *butanol*  
Oral, LD50: 2460 mg/kg (rat)  
Dermal, LD50: 3400 mg/kg (Rabbit)  
Inhalative, LC50/4h: 24,6 mg/l (rat)
  - 71-36-3**            *butan-1-ol*  
Oral, LD50: 2292 mg/kg (rat)  
Dermal, LD50: 3430 mg/kg (Rabbit)  
Inhalative, LC50/4h: 8000 mg/l (rat)
  - 64-17-5**            *ethanol*  
Oral, LD50: > 2000 mg/kg (rat)  
Dermal, LD50: > 2000 mg/kg (Rabbit)  
Inhalative, LC50/4h: > 20 mg/l (rat)
  - 1330-20-7**        *xylene*  
Oral, LD50: > 2000 mg/kg (rat)  
Dermal, LD50: > 2000 mg/kg (Rabbit)  
Inhalative, LC50/4h: 11 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.

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- **on the eye:**  
Irritating effect.
- **Sensitization:**  
No sensitizing effects known.
- **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.  
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:  
Eye Dam. 1 - H318 Causes serious eye damage.  
STOT SE 3 - H336 May cause drowsiness or dizziness.  
EUH066 Repeated exposure may cause skin dryness or cracking.
- **Repeated dose toxicity**  
no data available

**SECTION 12: Ecological information**

- **Toxicity**
- **Aquatic toxicity:**
  - 123-86-4**                    *n-butyl acetate*  
fish, L(E)C50 : 18 mg/l  
alga, L(E)C50 : 647,7 mg/l  
daphnie, L(E)C50 : 44 mg/l
  - 108-21-4**                    *isopropyl acetate*  
fish, L(E)C50 : 360 mg/l  
alga, L(E)C50 : 370 mg/l  
daphnie, L(E)C50 : > 1000 mg/l
  - 67-63-0**                    *propan-2-ol*  
fish, L(E)C50 : 9640 mg/l  
daphnie, L(E)C50 : 13299 mg/l
  - 64742-49-0**                *Naphtha (petroleum), hydrotreated light*  
daphnie, L(E)C50 : 4,6 - 10,0 mg/l
  - 78-83-1**                    *butanol*  
fish, L(E)C50 : 1430 mg/l  
alga, L(E)C50 : 1250 mg/l  
daphnie, L(E)C50 : 1030 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
  - 64-17-5**                    *ethanol*  
fish, L(E)C50 : 15300 mg/l  
daphnie, L(E)C50 : > 10000 mg/l
  - 1330-20-7**                *xylene*  
fish, L(E)C50 : 7,6 mg/l  
alga, L(E)C50 : 4,7 mg/l  
daphnie, L(E)C50 : 3,82 mg/l
- **Persistence and degradability**  
No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential**  
No further relevant information available.
- **Mobility in soil**  
No further relevant information available.

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- **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
- **Results of PBT and vPvB assessment**
- **PBT:**  
Not applicable.
- **vPvB:**  
Not applicable.
- **Other adverse effects**  
No further relevant information available.

### **SECTION 13: Disposal considerations**

- **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 11 waste paint and varnish containing organic solvents or other dangerous substances
- **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 01  
wastes from MFSU and removal of paint and varnish  
08 01 11  
waste paint and varnish containing organic solvents or other dangerous substances
- **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**

- **UN-Number**  
ADR UN1263  
IMDG UN1263  
IATA UN1263
- **UN proper shipping name**  
ADR 1263 PAINT (ISOPROPYL ACETATE, ISOPROPANOL (ISOPROPYL ALCOHOL))  
IMDG PAINT  
IATA PAINT
- **Transport hazard class(es)**  
ADR  
Class 3 Flammable liquids.

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**Label**

3



**IMDG**

**Class**

3 Flammable liquids.

**Label**

3



**IATA**

**Class**

3 Flammable liquids.

**Label**

3



• **Packing group**

**ADR**

II

**IMDG**

II

**IATA**

II

• **Environmental hazards:**

Not applicable.

• **Special precautions for user**

Warning: Flammable liquids.

**Danger code (Kemler):**

33

**EMS Number:**

F-E,S-E

• **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

**Transport category**

2

**Tunnel restriction code**

D/E

• **UN "Model Regulation":**

UN 1263 PAINT (ISOPROPYL ACETATE, ISOPROPANOL (ISOPROPYL ALCOHOL)), 3,

II

**SECTION 15: Regulatory information**

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

• **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:

n-butyl acetate

isopropyl acetate

propan-2-ol

xylene

1-methoxy-2-propanol

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butanol  
butan-1-ol  
Naphtha (petroleum), hydrotreated light  
éthanol

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.

- **National regulations:**
- **Information about limitation of use:**  
Pregnant and breastfeeding women and young persons.

**Storage class:**

3A

## SECTION 16: Other information

- **Reasons for changes**

Classification according to Regulation (EC) No 1272/2008.

- **Relevant phrases**

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
R 10	Flammable.
R 11	Highly flammable.
R 20/21	Harmful by inhalation and in contact with skin.
R 37/38	Irritating to respiratory system and skin.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 22	Harmful if swallowed.
R 36	Irritating to eyes.
R 66	Repeated exposure may cause skin dryness or cracking.
R 38	Irritating to skin.
R 41	Risk of serious damage to eyes.
R 65	Harmful: may cause lung damage if swallowed.
R 67	Vapours may cause drowsiness and 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 § 20 and § 21 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.

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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 Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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