

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

648700
Reviewed on: 13.07.2015
Printing date: 13.07.2015

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

- **1.1 Product identifier**
- **Trade name:**
EV Thinner
- **SDB-group**
19411001
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation**
Thinner, Diluent
- **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
- **1.4 Emergency telephone number:**
Giftinformationszentrum - Nord
Universitätsklinikum
Bereich Humanmedizin
Robert Koch Str.40
37075 Göttingen
Deutschland
Tel.: + 49 551 / 1 92 40

SECTION 02: Hazards identification

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

GHS08
Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways.
- 

GHS02
Flam. Liq. 3 - H226 Flammable liquid and vapour.
- 

GHS07
STOT SE 3 - H336 May cause drowsiness or dizziness.
- 

GHS09
Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**

(continued on page 2)

MATERIAL SAFETY DATA SHEET

as per 1907/2006/EC, Article 31

648700
Reviewed on: 13.07.2015
Printing date: 13.07.2015

PRODUCT : EV Thinner

(continued of page 1)



GHS08 GHS02 GHS07 GHS09

- **Signal word**
Danger

- **Hazard-determining components of labelling:**
Naphtha (petroleum), hydrotreated heavy / Naphtha (petroleum), hydrotreated heavy / 1-methoxy-2-propanol
- **Hazard statements**
H304 May be fatal if swallowed and enters airways.
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P310 Immediately call a POISON CENTER/doctor.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:**
Not applicable.
- **vPvB:**
Not applicable.

SECTION 03: Composition/information on ingredients

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

- **Dangerous components:**

CAS NO.	Description Index R-phrases	%
64742-48-9	Naphtha (petroleum), hydrotreated heavy EC number: 919-857-5 Record number 01-2119463258-33 ☠ Asp. Tox. 1 - H304; ☠ Flam. Liq. 3 - H226; ⚠ STOT SE 3 - H336	50-100
64742-48-9	Naphtha (petroleum), hydrotreated heavy EC number: 920-134-1 Record number 01-2119480153-44 ☠ Asp. Tox. 1 - H304; ☠ Flam. Liq. 3 - H226; ⚠ STOT SE 3 - H336; ☠ Aquatic Chronic 2 - H411	25-50

(continued on page 3)

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

648700
Reviewed on: 13.07.2015
Printing date: 13.07.2015

PRODUCT : EV Thinner

107-98-2

1-methoxy-2-propanol

EC number: 203-539-1

Record number 01-2119457435-35

Flam. Liq. 3 - H226; STOT SE 3 -

H336

(continued of page 2)

2,5-10

SECTION 04: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Take off or remove contaminated clothing immediately.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
Seek medical treatment in case of complaints.
- **After skin contact:**
Wash thoroughly with soap and water immediately and rinse well.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Do NOT induce vomiting! Keep the patient calm and call a doctor immediately.
- **Information for doctor:**
Treat symptomatically.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 05: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Foam
Fire-extinguishing powder
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:**
Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Mouth respiratory protective device.
- **Additional information**
Cool endangered receptacles with water spray.
Bring if possible, containers from the danger zone. With heating up, printing increase, Berst and danger of explosion.

SECTION 06: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Protection regulations (see point 7 and 8) to consider.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
Possible warning the neighbourhood.
- **6.3 Methods and material for containment and cleaning up:**

(continued on page 4)

MATERIAL SAFETY DATA SHEET

as per 1907/2006/EC, Article 31

648700
Reviewed on: 13.07.2015
Printing date: 13.07.2015

PRODUCT : EV Thinner

(continued of page 3)

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

- **6.4 Reference to other sections**

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 07: Handling and storage

- **Handling:**

- **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.
Use only in well ventilated areas.
Smoking, drinking and eating are not permitted at the working place!
Keep out of the reach of children.
Do not breathe in fumes.
Do not empty into drains.

- **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Fumes can combine with air to form an explosive mixture.
Vapours are heavier than air.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurised containers.

- **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.

SECTION 08: Exposure controls/personal protection

- **8.1 Control parameters**

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

<i>CAS No.</i>	<i>Designation of material</i>
107-98-2	1-methoxy-2-propanol

WEL

<i>Short-term value</i>	560	mg/m ³
	150	ppm
<i>Long-term value</i>	375	mg/m ³
	100	ppm

Sk

- **DNELs**

64742-48-9	<i>Naphtha (petroleum), hydrotreated heavy</i>
A, DNEL/DMEL: 900 mg/m ³ (Consumer, Long Term Exposure)	
A, DNEL/DMEL: 1500 mg/m ³ (Worker, Long Term Exposure)	
Dermal, DNEL/DMEL: 300 mg/kg (Consumer, Long Term Exposure)	
Dermal, DNEL/DMEL: 300 mg/kg (Worker, Long Term Exposure)	
Oral, DNEL/DMEL: 300 mg/kg (Consumer, Long Term Exposure)	

64742-48-9	<i>Naphtha (petroleum), hydrotreated heavy</i>
-------------------	---

(continued on page 5)

MATERIAL SAFETY DATA SHEET

as per 1907/2006/EC, Article 31

648700
Reviewed on: 13.07.2015
Printing date: 13.07.2015

PRODUCT : EV Thinner

(continued of page 4)

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

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

A, DNEL/DMEL: 43,9 mg/m³ (Consumer, Long Term Exposure)
A, DNEL/DMEL: 369 mg/m³ (Worker, Long Term Exposure)
A, DNEL/DMEL: 553,5 mg/m³ (Worker, Short Term Exposure)
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)

• **PNECs**

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

PNEC: 10 mg/l (Fresh water)
PNEC: 1 mg/l (Seawater)
PNEC: 100 mg/l (Liberation - sporadic -)
PNEC: 100 mg/l (Defecator)
PNEC: 41,6 mg/kg (sediment (Fresh water))
PNEC: 4,17 mg/kg (sediment (seawater))
PNEC: 2,47 mg/kg (Bottom)

• **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.

• **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 / cm² / 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

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid
Colour: Colourless
Odour: Characteristic
Odour threshold: Not determined.

Change in condition Phase transfer: liquid-gaseous

Boiling point/Boiling range (approximately): 120,0 °C
Flash point (approximately): 31,0 °C DIN 51 755
Ignition temperature (approximately): 231,00 °C (lowest value of the single components)
Decomposition temperature: Not determined.
Self-igniting: Product is not selfigniting.

(continued on page 6)

MATERIAL SAFETY DATA SHEET

as per 1907/2006/EC, Article 31

648700
Reviewed on: 13.07.2015
Printing date: 13.07.2015

PRODUCT : EV Thinner

(continued of page 5)

Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.	
Explosion limits:		
Lower:	0,60 Vol %	
Upper:	7,00 Vol %	
Oxidizing properties	Not determined	
Vapour pressure:	at 20,00 °C	5,0000 hPa 50°C < 1.100 hPa
Density:	0,7670 g/cm ³	
Vapour density	Not determined.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with water:	Organic solvents Insoluble.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity (according to DIN 53211)		
Dynamic:	Not determined.	
Kinematic:	at 20,00 °C	10,00 s DIN 4 mm
Solvent separation test:	< 3 %	
Organic solvents (approximately):	100,00 %	
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**
Forms explosive gases/fumes.
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
- **10.4 Conditions to avoid**
No further relevant information available.
- **10.5 Incompatible materials:**
No further relevant information available.
- **10.6 Hazardous decomposition products:**
Flammable gases/vapours

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**
 - 64742-48-9 Naphtha (petroleum), hydrotreated heavy**
Oral, LD50: > 5000 mg/kg (rat)
Dermal, LD50: > 5000 mg/kg (Rabbit)
Inhalative, LC50/4h: > 5 mg/l (rat)
 - 64742-48-9 Naphtha (petroleum), hydrotreated heavy**
Oral, LD50: > 2000 mg/kg (rat)
Dermal, LD50: > 2000 mg/kg (Rabbit)
Inhalative, LC50/4h: > 5 mg/l (rat)
 - 107-98-2 1-methoxy-2-propanol**
Oral, LD50: 4016 mg/kg (rat)
Dermal, LD50: 2000 mg/kg (Rabbit)
Inhalative, LC50/4h: 27,596 mg/l (Rabbit)
- **Primary irritant effect:**
- **on the skin:**

(continued on page 7)

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

648700
Reviewed on: 13.07.2015
Printing date: 13.07.2015

PRODUCT : EV Thinner

(continued of page 6)

Frequent and prolonged skin contact can cause irritation and inflammation of the skin.
Repeated exposure may cause skin dryness or cracking.

- **on the eye:**

Irritating effect.

- **Sensitization:**

No sensitising effects known.

- **Additional toxicological information:**

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

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

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

EUH066 Repeated exposure may cause skin dryness or cracking.

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

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

64742-48-9 *Naphtha (petroleum), hydrotreated heavy*
fish, L(E)C50 : 3,6 mg/l
daphnie, L(E)C50 : 22 - 46 mg/l

107-98-2 *1-methoxy-2-propanol*
fish, L(E)C50 : > 1000 mg/l
alga, L(E)C50 : > 1000 mg/l
daphnie, L(E)C50 : 21100-25900 mg/l

- **12.2 Persistence and degradability**

No further relevant information available.

- **Behaviour in environmental systems:**

- **12.3 Bioaccumulative potential**

No further relevant information available.

- **12.4 Mobility in soil**

No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:**

Toxic for fish

- **Additional ecological information:**

- **General notes:**

Toxic for aquatic organisms

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

Also poisonous for fish and plankton in water bodies.

Water hazard class 2 : hazardous for water

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

- **PBT:**

Not applicable.

- **vPvB:**

Not applicable.

- **12.6 Other adverse effects**

No further relevant information available.

MATERIAL SAFETY DATA SHEET

as per 1907/2006/EC, Article 31

648700
Reviewed on: 13.07.2015
Printing date: 13.07.2015





PRODUCT : EV Thinner

(continued of page 7)

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be deposited together with domestic waste. Do not empty into drains.
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:**
20 01 13 / solvents
- **European waste catalogue**
20
MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01
separately collected fractions (except 15 01)
20 01 13
solvents
- **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:**
Not necessary

SECTION 14: Transport information

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

(continued on page 9)

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

648700
Reviewed on: 13.07.2015
Printing date: 13.07.2015

PRODUCT : EV Thinner

(continued of page 8)

Label



• **14.4 Packing group**

ADR III

IMDG III

IATA III

• **14.5 Environmental hazards:**

Marine pollutant: Yes

• **14.6 Special precautions for user**

Warning: Flammable liquids.

Danger code (Kemler): 30

EMS Number: F-E,S-E

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

Not applicable.

• **Transport/Additional information:**

Not applicable.

Excepted quantities (EQ): E1

Limited quantities (LQ) 5L

Transport category 3

Tunnel restriction code D/E

IMDG

Limited quantities (LQ) 5L

Excepted quantities (EQ) E1

• **UN "Model Regulation":**

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

SECTION 15: Regulatory information

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

• **National regulations:**

• **Information about limitation of use:**

Pregnant and breastfeeding women and young persons.

• **Waterhazard class:**

Water hazard class 2 : hazardous for water.

• **15.2 Chemical safety assessment:**

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

1-methoxy-2-propanol

Naphtha (petroleum), hydrotreated heavy

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

GB

(continued on page 10)

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

648700
Reviewed on: 13.07.2015
Printing date: 13.07.2015

PRODUCT : EV Thinner

(continued of page 9)

SECTION 16: Other information

- **Reasons for changes**

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

- **Relevant phrases**

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

- **Department issuing MSDS:**

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

- **Information:**

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

The user is responsible for observing all necessary legal regulations.

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

According to § 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.

Please observe work safety measures in items 8 and 15.

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