

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 09.12.2015



Version number 2

Revision: 09.12.2015

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** VERDÜNNER FÜR SHERAPOR-L (THINNER FOR SHERAPOR-L)
- **CAS Number:**  
141-78-6
- **EC number:**  
205-500-4
- **Index number:**  
607-022-00-5
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
No further relevant information available.
- **Application of the substance / the mixture** Thinner, Diluent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SHERA Werkstoff-Technologie GmbH & Co. KG  
Espohlstraße 53  
D-49448 Lemförde  
GERMANY  
sdb@shera.de
- **Further information obtainable from:** Department of product security.
- **1.4 Emergency telephone number:**  
+49 5443 9933-0 This number is serviced during office hours.  
Opening times: Monday to Thursday from 8 am . 5 pm, Friday from 8 am . 3 pm.

### SECTION 2: 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.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
STOT SE 3 H336 May cause drowsiness or dizziness.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**  

  
 GHS02 GHS07
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
ethyl acetate
- **Hazard statements:**  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.
- **Precautionary statements:**  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P261 Avoid breathing mist/vapours/spray.  
P280 Wear protective gloves / eye protection.

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- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a doctor if you feel unwell.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

- **Additional information:**

- EUH066 Repeated exposure may cause skin dryness or cracking.

- **2.3 Other hazards**

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

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**

- **CAS No. Description**

- 141-78-6 ethyl acetate

- **Identification number(s)**

- **EC number:** 205-500-4

- **Index number:** 607-022-00-5

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information:**

- Immediately remove any clothing soiled by the product.

- Take affected persons out of danger area and lay down.

- Do not leave affected persons unattended.

- Personal protection for the First Aider.

- **After inhalation:**

- Supply fresh air; consult doctor in case of complaints.

- In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

- Wash with water and soap.

- Skin degreasing possible after prolonged contact, use skin protection cream after prolonged skin contact.

- 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:**

- Rinse out mouth and then drink plenty of water.

- Do not induce vomiting. Risk of aspiration!

- Seek immediate medical advice.

- **4.2 Most important symptoms and effects, both acute and delayed**

- Headache.

- Dizziness.

- Dizziness.

- Unconsciousness.

- Nausea.

- Gastric or intestinal disorders.

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- **Hazards**  
Danger of pulmonary oedema.  
If swallowing results in vomiting, product may be aspirated into lungs, Which can lead to chemical pneumonia or suffocation.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
Later observation for pneumonia and pulmonary oedema.  
May cause drowsiness or dizziness.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**  
Danger . due to high vapour pressure, rupture of containers is possible if temperature rises.  
Carbon monoxide (CO).  
Carbon dioxide (CO<sub>2</sub>).
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Remove containers from danger area if this is possible without risk to yourself or others.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources.  
Do not breathe vapour.  
Use respiratory protective device against the effects of fumes / dust / aerosol.  
Avoid contact with skin and eyes.
- **6.2 Environmental precautions**  
Suppress gases / fumes / haze with water spray.  
Do not allow to enter sewers / surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up**  
Ensure adequate ventilation.  
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, universal binding agents).  
Send for recovery or disposal in suitable receptacles.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).  
Avoid contact with eyes.  
Avoid prolonged / repeated skin contact.

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- Do not breathe vapours.
- Prevent formation of aerosols.
- Do not exceed the occupational exposure limit(s) (OEL) and / or any other exposure limits.
- Avoid splashes or spray in enclosed areas.
- Restrict the quantity stored at the work place.
- **Information about fire - and explosion protection:**
- Fumes can combine with air to form an explosive mixture.
- Flammable gas-air mixtures may form in empty receptacles.
- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- Protect from heat.
- Do not spray onto a naked flame or any incandescent material.
- Danger of explosion if fluid enters the sewage system.
- Use explosion-proof apparatus / fittings and spark-proof tools.
- Emergency cooling must be available in case of nearby fire.
- Handle only outside or in explosion protected rooms.

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

• **Storage**

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

- Follow water-related legal regulations.
- Follow regulations for storage of flammable fluids.

• **Information about storage in one common storage facility:**

- Do not store together with oxidising and acidic materials.

• **Further information about storage conditions:**

- Store receptacle in a well ventilated area.
- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.
- Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- Store only outside or in explosion proof rooms.

• **Storage class:**

- 3 - Flammable liquids (as defined by the Chemical Industry Association (VCI, Verband der chemischen Industrie e.V.))

• **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.

• **8.1 Control parameters**

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

<b>141-78-6 ethyl acetate</b>	
WEL	Short-term value: 400 ppm Long-term value: 200 ppm

- **DNELs:** No data available.
- **PNECs:** No data available.
- **Additional information:** The lists valid during the making were used as basis.

• **8.2 Exposure controls**

• **Personal protective equipment:**

• **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Do not carry product impregnated cleaning cloths in trouser pockets.
- Do not eat, drink, smoke or sniff while working.
- Avoid contact with the eyes and skin.

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Do not inhale gases / fumes / aerosols.

Wash hands before breaks and at the end of work.

Use skin protection cream for skin protection.

- **Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed.

If occupational exposure limits (OEL) and other exposure limits are observed long-term, no particular precautions are normally required.

- **Recommended filter device for short term use:**

Gas filter device as defined by EN 14387 Type A (organic gas / vapours, boiling point &gt; 65 °C . colour code brown.

- **Protection of hands:**

Solvent resistant gloves.

The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Check the permeability prior to each renewed use of the glove.

To avoid skin problems reduce the wearing of gloves to the required minimum.

- **Material of gloves:**

Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.6$  mm

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.

- **Penetration time of glove material:**

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374).

Protective gloves have to be replaced at the first sign of deterioration.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:**

Solvent resistant protective clothing.

Anti-static protective clothing.

Body protection should be chosen depending on activity and possible exposure.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Fruit-like
<b>Odour threshold:</b>	Not determined.

- **pH-value:** No data available.

- **Change in condition**

<b>Melting point/Melting range:</b>	-84 °C
<b>Boiling point/Boiling range:</b>	74 - 78 °C

- **Flash point:** -4 - -1 °C (PMCC)

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· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	≥ 425 °C
· <b>Decomposition temperature:</b>	No data available.
· <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>	2.1 Vol %
<b>Upper:</b>	11.5 Vol %
· <b>Oxidising properties</b>	Not oxidizing.
· <b>Vapour pressure at 20 °C:</b>	100 hPa
· <b>Density at 20 °C:</b>	0.901 - 0.903 g/cm <sup>3</sup>
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water at 20 °C:</b>	80 g/l
· <b>organic solvents:</b>	Miscible with many organic solvents.
· <b>Partition coefficient (n-octanol/water):</b>	0,66 log POW
· <b>Viscosity:</b>	
<b>Dynamic at 20 °C:</b>	0,44 mPas
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>VOC (EC):</b>	100.00 %
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No data available.
- **10.2 Chemical stability** Avoid impact, friction, heat, sparks, electrostatic charge.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
Develops readily flammable gases / fumes.  
Danger of receptacles bursting because of high vapour pressure when heated.  
Used empty containers may contain product gases which form explosive mixtures with air.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials**  
Oxidizing agents, strong.  
Strong acid.  
Alkalis (alkalis).  
Metal.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** No data available.

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**LD/LC50 values relevant for classification:**
**141-78-6 ethyl acetate**

Oral	LD50	5620 mg/kg (Rabbit)
Inhalative	LC50/4 h	1600 mg/l (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Frequently or prolonged contact with skin may cause dermal irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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**  
May cause drowsiness or dizziness.
- **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:**  
EC50/48h 3300 mg/l (Algae (*Scenedesmus subspicatus*))  
164 mg/l (*Daphnia (Daphnia magna)*)  
LC50/96 h 230 mg/l (*Fisch (salmo gairdneri)*)
- **12.2 Persistence and degradability** Easily biodegradable.
- **Other information:**  
DOC reduction: > 70 %  
Biodegradability 100 % in 28 days (OECD 301 D).
- **12.3 Bioaccumulative potential**  
Distribution coefficient (n-octanol / water) (log P O/W): 0,66  
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **COD-value:** 1816 mgO<sub>2</sub>/g
- **BOD5-value:** 293 mgO<sub>2</sub>/g
- **General notes:**  
Water hazard class 1 (German Regulation) (Assessment by list): slightly 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.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Waste disposal according to official state regulations.
- **Waste disposal key:**  
The waste disposal code as prescribed in the European Waste Catalogue (EWC) depends on the waste producer and can thus vary for a product. The waste disposal code should thus be obtained separately from the waste producer in each case.

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- **European waste catalogue**  
According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<p>UN1173</p>	
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	<p>1173 ETHYL ACETATE ETHYL ACETATE</p>	
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p>3 Flammable liquids. 3</p>
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	<p>II</p>	
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>	<p>No.</p>	
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>EMS Number:</b></li> </ul>	<p>Warning: Flammable liquids. F-E,S-D</p>	
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	<p>Not applicable.</p>	
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	<p>Sending by post is either impossible or permitted only in limited circumstances. Follow special postal regulations.</p>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Excepted quantities (EQ):</b></li> <li>· <b>Limited quantities (LQ):</b></li> <li>· <b>Excepted quantities (EQ):</b></li> <li>· <b>Transport category:</b></li> <li>· <b>Tunnel restriction code:</b></li> </ul>	<p>E2 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E</p>	
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ):</b></li> <li>· <b>Excepted quantities (EQ):</b></li> </ul>	<p>1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</p>	

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· **UN "Model Regulation":** UN 1173 ETHYL ACETATE, 3

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **National regulations:**
- **Information about limitation of use:**  
Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on the state of knowledge and experience pertaining on the date of issue. The information is not to be taken as a guarantee of product properties and do not constitute the basis for a contractual legal relationship. The details must not be changed or transferred to other products. Duplication in an unchanged state is permissible.

- **Department issuing MSDS:** Department of product security.
- **Abbreviations and acronyms:**  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids, Hazard Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
- **Sources** All details based on information provided by upstream suppliers.
- **\* Data compared to the previous version altered.**