

# Safety data sheet

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

Printing date 07.04.2021

Version number 4

Revision: 07.04.2021

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

- **1.1 Product identifier**
- **Trade name:** SHERAPOR-L
- **Article number:** 926301, 926302
- **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:** Dipping hardener.
- **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  
+ 49 (0) 54 43 – 99 33 – 0
- **Further information obtainable from:** Department of product security.
- **1.4 Emergency telephone number:**  
Gif tinformationszentrum-Nord +49 (0) 551-19240  
(Information in german or english)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008:**  
Flam. Liq. 3 H226 Flammable liquid and vapour.  
STOT SE 3 H336 May cause drowsiness or dizziness.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008:**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms:**



GHS02 GHS07

- **Signal word:** Warning
- **Hazard-determining components of labelling:**  
n-butyl acetate
- **Hazard statements:**  
H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.
- **Precautionary statements:**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.

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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 3: Composition/information on ingredients

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

- **Dangerous components:**

CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	n-butyl acetate	Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	25-<100%
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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 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.  
 Personal protection for the First Aider.
- **After inhalation:**  
 Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
 In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
 After contact with skin, wash immediately with plenty of water and soap.  
 If skin irritation continues, consult a doctor.  
 Skin degreasing possible after prolonged contact, use skin protection cream after prolonged skin contact.
- **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**  
 Nausea.  
 Headache.  
 Dizziness.  
 Dizziness.  
 Unconsciousness.
- **Hazards**  
 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.

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### 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 of bursting.  
Can form explosive gas-air mixtures.  
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.  
Avoid contact with skin and eyes.
- **6.2 Environmental precautions**  
Suppress gases / fumes / haze with water spray.  
Prevent from spreading (e.g. by damming-in or oil barriers).  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers / surface or ground water.
- **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).  
Remove from the water surface (e.g. skim or suck off).  
Do not flush with water or aqueous cleansing agents  
Send for recovery or disposal in suitable receptacles.  
Dispose of the material collected according to regulations.
- **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).  
Do not breathe vapours.  
Do not exceed the occupational exposure limit(s) (OEL) and / or any other exposure limits.  
Avoid prolonged / repeated skin contact.  
Avoid contact with eyes.  
Open and handle receptacle with care.  
Avoid splashes or spray in enclosed areas.
- **Information about fire - and explosion protection:**  
Fumes can combine with air to form an explosive mixture.

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Flammable gas-air mixtures may form in empty receptacles.  
 Keep ignition sources away - Do not smoke.  
 Protect against electrostatic charges.  
 Danger of explosion if fluid enters the sewage system.  
 Emergency cooling must be available in case of nearby fire.  
 Use explosion-proof apparatus / fittings and spark-proof tools.  
 Keep away from heat.  
 Protect from direct sunlight.  
 Do not spray onto a naked flame or any incandescent material.  
 Keep respiratory protective device available.

· **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.  
 Do not store together with alkalis (caustic solutions).

· **Further information about storage conditions:**

Store receptacle in a well ventilated area.  
 Keep container tightly sealed.  
 Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

· **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

· **8.1 Control parameters**

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

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

WEL (Great Britain)	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 ppm
AGW (Germany)	Long-term value: 300 mg/m <sup>3</sup> , 62 ppm 2(l);AGS, Y
IOELV (EU)	Short-term value: 723 mg/m <sup>3</sup> , 150 ppm Long-term value: 241 mg/m <sup>3</sup> , 50 ppm

· **DNELs:**

No data available.

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

Dermal	DNEL Worker - Long Term - Systemic effects	11 mg/kg (workers)
Inhalative	DNEL Worker - Long Term - Systemic effects	300 mg/m <sub>3</sub> (workers)

· **PNECs:** No data available.

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as 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.  
 Do not inhale gases / fumes / aerosols.

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- Avoid close or long term contact with the skin.
- Avoid contact with the eyes.
- Wash hands before breaks and at the end of work.
- Apply solvent resistant skin cream before starting work.

- **Respiratory protection:**

Use suitable respiratory protective device when high concentrations are present.  
If occupational exposure limits (OEL) and other exposure limits are observed long-term, no particular precautions are normally required.

- **Hand protection**



Protective 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.

Preventive skin protection by use of skin-protecting agents is recommended.

- **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.

- **Penetration time of glove material:**

For the mixture of chemicals mentioned below the penetration time has to be at least  $\geq 480$  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/face protection** Safety glasses.

- **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**

• <b>Colour:</b>	Brown
• <b>Odour:</b>	Pungent
• <b>Melting point/freezing point:</b>	< -50 °C
• <b>Boiling point or initial boiling point and boiling range</b>	124 - 128 °C (DIN 53171)
• <b>Flammability</b>	Flammable.
• <b>Lower and upper explosion limit</b>	
• <b>Lower:</b>	≈ 1.2 Vol %
• <b>Upper:</b>	≈ 9.6 Vol %
• <b>Flash point:</b>	26.5 °C (DIN 51755)
• <b>Auto-ignition temperature:</b>	Product is not selfigniting.
• <b>Decomposition temperature:</b>	Not determined.
• <b>pH</b>	Not determined.
• <b>Solubility</b>	
• <b>water at 20 °C:</b>	≈ 5.3 g/l
• <b>Partition coefficient n-octanol/water (log value)</b>	1.81 log POW
• <b>Vapour pressure at 50 °C:</b>	63 hPa

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· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	0.918 g/cm <sup>3</sup>
· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	415 °C
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air / vapour mixtures are possible.
· <b>Solvent content:</b>	
· <b>VOC (EC):</b>	64.00 %
· <b>Change in condition:</b>	
· <b>Softening point/range</b>	
· <b>Oxidising properties:</b>	Not oxidizing.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void.
· <b>Flammable gases</b>	Void.
· <b>Aerosols</b>	Void.
· <b>Oxidising gases</b>	Void.
· <b>Gases under pressure</b>	Void.
· <b>Flammable liquids</b>	
Flammable liquid and vapour.	
· <b>Flammable solids</b>	Void.
· <b>Self-reactive substances and mixtures</b>	Void.
· <b>Pyrophoric liquids</b>	Void.
· <b>Pyrophoric solids</b>	Void.
· <b>Self-heating substances and mixtures</b>	Void.
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void.
· <b>Oxidising liquids</b>	Void.
· <b>Oxidising solids</b>	Void.
· <b>Organic peroxides</b>	Void.
· <b>Corrosive to metals</b>	Void.
· <b>Desensitised explosives</b>	Void.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No data available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
Avoid impact, friction, heat, sparks, electrostatic charge.
- **10.3 Possibility of hazardous reactions**  
Danger of receptacles bursting because of high vapour pressure when heated.  
Development of flammable gases / vapours.  
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).
- **10.6 Hazardous decomposition products** Carbon monoxide and carbon dioxide.

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### SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

· **Acute toxicity:** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

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

Oral	LD50	10,760 mg/kg (Rat) (OECD 423)
		12,789 mg/kg (Rabbit) (OECD 423)
Dermal	LD50	>14,000 mg/kg (Rabbit) (OECD 402)

· **Skin corrosion/irritation** Frequently or prolonged contact with skin may cause dermal irritation.

· **Serious eye damage/irritation** Short-term reversible irritation.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **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.

· **Additional toxicological information:**

Inhalation of concentrated vapours may cause narcosis-like conditions, headache, vertigo, etc.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

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

EC50/48 h	44 mg/l (Daphnia) (OECD 201)
NOEC, 72h	105 mg/l (Algae) (OECD 201)
NOEC, 21d	47.6 mg/l (Daphnia (Daphnia magna)) (OECD 201)
EC50/24 h	335 mg/l (Algae) (OECD 201)
EC50/72 h	246 mg/l (Algae) (OECD 201)

· **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.

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

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation:**

Waste disposal according to official state regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **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.

· **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

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

UN1123

· **14.2 UN proper shipping name**

· **ADR**

1123 BUTYL ACETATES mixture

· **IMDG, IATA**

BUTYL ACETATES mixture

· **14.3 Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class**

3 Flammable liquids.

· **Label**

3

· **14.4 Packing group**

· **ADR, IMDG, IATA**

III

· **14.5 Environmental hazards:**

· **Marine pollutant:**

No.

· **14.6 Special precautions for user**

Warning: Flammable liquids.

· **Hazard identification number (Kemler code):**

30

· **EMS Number:**

F-E,S-D

· **Stowage Category**

A

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· **Transport/Additional information:**

Sending by post is either impossible or permitted only in limited circumstances. Follow special postal regulations.

· **ADR**

· **Excepted quantities (EQ):**

E1

· **Limited quantities (LQ):**

5L

· **Excepted quantities (EQ):**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **Transport category:**

3

· **Tunnel restriction code:**

D/E

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|------------------------------------|--|
| <b>· IMDG</b>                      |  |
| <b>· Limited quantities (LQ):</b>  | 5L   |
| <b>· Excepted quantities (EQ):</b> | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| <b>· UN "Model Regulation":</b>    | UN 1123 BUTYL ACETATES MIXTURE, 3, III   |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P5c** FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **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.

- **Relevant phrases**  
H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.  
EUH066 Repeated exposure may cause skin dryness or cracking.
- **Department issuing SDS:** 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 relatif au transport international 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  
ELINCS: European List of Notified 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. 3: Flammable liquids – Category 3  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- **Sources** All details based on information provided by upstream suppliers.
- **\* Data compared to the previous version altered.**