

## Safety data sheet

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

Printing date 05.05.2014


Version number 101

Revision: 24.03.2014

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

- **1.1 Product identifier**
- **Trade name** *LPZ/II*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation** *Release agent*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Riepe GmbH & Co. KG*  
*Theodor Rosenbaum Str. 28-30*  
*D-32257 Bünde*  
*Tel.: +49(0)5223-60990*  
*Fax: +49(0)5223-63959*  
*email: rene@riepe.eu*
- **Informing department:** *Mr. Riepe +49(0) 5223-60990*
- **1.4 Emergency telephone number:**  
*Poison Control Center, Mainz*  
*Tel. 00 49 / 61 31 / 19 240*

#### 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.*
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
*F; Highly flammable*  
*R11: Highly flammable.*
- **Classification system:**  
*The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.*
- **2.2 Label elements**
- **Labelling according to EU guidelines:**  
*The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)*
- **Code letter and hazard designation of product:**
-  *F Highly flammable*
- **Risk phrases:**  
*11 Highly flammable.*
- **Safety phrases:**  
*2 Keep out of the reach of children.*  
*7 Keep container tightly closed.*  
*16 Keep away from sources of ignition - No smoking.*  
*60 This material and its container must be disposed of as hazardous waste.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*

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- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

## - 3.2 Mixtures

- **Description:** Mixture of the substances listed below with harmless additions- **Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	ethanol	F R11 Flam. Liq. 2, H225; Eye Irrit. 2, H319	50-100%
	abherent oil	Xn R65 Asp. Tox. 1, H304	2.5-10%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

## - 4.1 Description of first aid measures

- **General advice:** Instantly remove any clothing soiled by the product.- **After inhalation**

Provide fresh-air circulation. If symptoms continue, consult a doctor. In case of respiratory failure or breathing irregularities, commence resuscitation or oxygen inhalation and immediately consult a doctor. In case of unconsciousness, place und transport the patient in a recovery position.

- **After skin contact**

Remove contaminated clothing immediately. Wash affected areas with plenty of water und soap. If irritation continues, contact a doctor.

- **After eye contact** Rinse immediately opened eye for several minutes under running water. Then consult doctor.- **After swallowing**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

- **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 5: Firefighting measures

## - 5.1 Extinguishing media

- **Suitable extinguishing agents**

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

## - 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures. In case of incomplete combustion carbon monoxide can arise. Fumes are heavier than air and distributed over ground. Inflammation is possible from a far distance.

## - 5.3 Advice for firefighters

- **Protective equipment:**

Wear self-contained breathing apparatus.

See section 8.

- **Additional information** Endangered containers in the surrounding area should be cooled with a water-hose.

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### SECTION 6: Accidental release measures

#### - 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment and keep unprotected persons away.

Extinguish naked flames. Remove flammable sources. No smoking. Avoid sparks. Avoid contact with skin, eyes and clothing. Avoid inhalation of fumes. Air contaminated rooms thoroughly. Protect against electrostatic sparks.

#### - 6.2 Environmental precautions:

Prevent material from reaching sewage system, holes and cellars.

Dilute with much water.

If large amounts are released, the authorities must be informed.

#### - 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Contaminated material has to be disposed as waste (see 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 information on disposal.

### \* SECTION 7: Handling and storage

#### - 7.1 Precautions for safe handling

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with eyes or skin.

#### - Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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

##### - Storage

Protect against direct sunlight, other sources of heat and ignition.

Keep containers tightly closed. Store in cool, dry conditions.

##### - Requirements to be met by storerooms and containers:

Observe official regulations on storage and handling of water hazardous substances

##### - Information about storage in one common storage facility: Store away from oxidizing agents.

##### - Further information about storage conditions:

Pay attention to regulations/technical rules for the storage of combustible liquids.

#### - 7.3 Specific end use(s) No further relevant information available.

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

#### - Additional information about design of technical systems:

Room ventilation i.e. vacuum suction. Measures to be taken against electro-static sparks.

#### - 8.1 Control parameters

##### - Components with critical values that require monitoring at the workplace:

64-17-5 ethanol (50-100%)

WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

#### - Additional information: The lists that were valid during the compilation were used as basis.

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**- 8.2 Exposure controls****- Personal protective equipment****- General protective and hygienic measures**

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Gases, fumes and aerosols should not be inhaled.

**- Breathing equipment:**

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

**- Recommended filter device for short term use:** Combination filter A-P2**- Protection of hands:** Solvent resistant gloves**- Material of gloves**Butylrubber, BR, recommended thickness of the material:  $\geq 0.7$  mm, penetration time:  $\geq 480$  min.Fluorocarbon rubber (Viton), recommended thickness of the material:  $\geq 0.7$  mm, penetration time:  $\geq 480$  min.

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**

Change gloves if notice sign of disenchantment.

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 safety glasses.**- Body protection:**

Standard protective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear impenetrable protective clothing against this solvent.

\* **SECTION 9: Physical and chemical properties****- 9.1 Information on basic physical and chemical properties****- General Information****- Appearance:****Form:** Fluid**Colour:** Colourless**- Smell:** Alcohol-like**- Odour threshold:** Not determined.**- pH-value:** Not determined.**- Change in condition****Melting point/Melting range:** Not determined**Boiling point/Boiling range:**  $\geq 78$  °C**- Flash point:** 13 °C**- Inflammability (solid, gaseous)** Not applicable.**- Ignition temperature:**  $> 200$  °C  
(lowest level for individual components)**- Decomposition temperature:** Not determined.**- Self-inflammability:** Product is not selfigniting.**- Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

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<b>- Critical values for explosion:</b>	
Lower:	2 Vol %
Upper:	15.0 Vol %
(Higher and lower level for individual components)	
<b>- Vapour pressure:</b>	Not determined.
<b>- Density at 20 °C</b>	0.79 g/cm <sup>3</sup>
<b>- Relative density</b>	Not determined.
<b>- Vapour density</b>	Not determined.
<b>- Evaporation rate</b>	Not determined.
<b>- Solubility in / Miscibility with Water:</b>	Partly miscible
<b>- Partition coefficient (n-octanol/water):</b>	Not determined.
<b>- Viscosity:</b>	
dynamic:	Not determined.
kinematic:	Not determined.
<b>- 9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.  
To avoid: warmth, flames, sparks
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
strong oxidizing agents  
Aluminium, zinc and other light metals.
- **10.6 Hazardous decomposition products:** Formation of carbon monoxide and carbon dioxide in case of fire.

### \* SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:

**- LD/LC50 values that are relevant for classification:**

#### 64-17-5 ethanol

Oral	LD50	10470 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rab)
Inhalative	LC 50 / 4 h	> 20 mg/l (mouse)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Subacute to chronic toxicity:** Can lead to liverdammage

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**- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

The ingredients in this mixture do not meet the criteria for classification as CMR categories according to CLP.

### SECTION 12: Ecological information

**- 12.1 Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

**- Additional ecological information:**

- **General notes:** Water hazard class 1 (Self-assessment): 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**

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.

**- Recommendation**

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

If possible, send to be recycled, otherwise burn or deposit in a certified facility.

**- Waste disposal key number:**

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

- **Uncleaned packagings:** Disposal must be made according to official regulations.

**- Recommendation:**

Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.

Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

Caution: Leftovers in the containers may cause the risk of explosion.

Uncleaned containers should not be perforated, cut or welded.

- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

### \* SECTION 14: Transport information

**- 14.1 UN-Number**

- **ADR, IMDG, IATA**

UN1170

**- 14.2 UN proper shipping name**

- **ADR**

1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

- **IMDG**

ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

- **IATA**

ETHANOL SOLUTION

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<b>- 14.3 Transport hazard class(es)</b>	
- ADR	
- Class	3 (F1) Flammable liquids.
- Label	3
<hr style="border-top: 1px dashed #000;"/>	
<b>- IMDG, IATA</b>	
- Class	3 Flammable liquids.
- Label	3
<b>- 14.4 Packing group</b>	
- ADR, IMDG, IATA	II
<b>- 14.5 Environmental hazards:</b>	
- Marine pollutant:	Not applicable. No
<b>- 14.6 Special precautions for user</b>	
- Kemler Number:	Warning: Flammable liquids. 33
- EMS Number:	F-E,S-D
<b>- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	
	Not applicable.
<b>- Transport/Additional information:</b>	
<hr style="border-top: 1px dashed #000;"/>	
- ADR	
- Limited quantities (LQ)	1L
- UN "Model Regulation":	UN1170, ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II

**\* 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: Employment restrictions concerning young persons must be observed.
  - Decree to be applied in case of technical fault:  
Materialgroup 2 (light flammable liquids) mixing-swell to be observed
  - Technical instructions (air):
- | Class | Share in % |
|-------|------------|
| NK    | 50-100     |
- Water hazard class:  
Water hazard class 1 (self assessment according to German VwVwS (Regulations for water-hazardous substances): slightly hazardous for water.
  - 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases  
Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

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*H225 Highly flammable liquid and vapour.*

*H304 May be fatal if swallowed and enters airways.*

*H319 Causes serious eye irritation.*

*R11 Highly flammable.*

*R65 Harmful: may cause lung damage if swallowed.*

**- Department issuing data specification sheet: see item 1: Informing department**

**- Abbreviations and acronyms:**

*LEV: Local Exhaust Ventilation*

*RPE: Respiratory Protective Equipment*

*RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)*

*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 Harmonized System of Classification and Labelling of Chemicals*

*CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

**- \* Data compared to the previous version altered.**

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