

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 24.03.2014


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** LP163/93
- **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** Cleaning agent / Cleaner
- **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.  
R67: Vapours may cause drowsiness and dizziness.
  - **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:**
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F Highly flammable
- **Risk phrases:**  
11 Highly flammable.  
67 Vapours may cause drowsiness and dizziness.
  - **Safety phrases:**  
7/9 Keep container tightly closed and in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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- 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 the substances listed below with harmless additions  
Cleaning agent

#### - 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%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	acetone Xi R36; F R11 R66-67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-25%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	propan-2-ol Xi R36; F R11 R67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	< 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.  
In case of unconsciousness bring patient into stable side position for transport.
- 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  
Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.
- 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.

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- **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:**  
See section 8.  
Wear full protective suit with self-contained breathing apparatus.
- **Additional information** Endangered containers in the surrounding area should be cooled with a water-hose.

### \* 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.  
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **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.  
Danger of explosion

### \* SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Store in cool, dry place in tightly closed containers.  
Ensure good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact.  
Prevent formation of aerosols.
- **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:**  
Pay attention to regulations / technical guidelines on mixed storage of flammable liquids.
- **Further information about storage conditions:**  
Pay attention to regulations/technical rules for the storage of combustible liquids.  
Store in cool, dry conditions in well sealed containers.

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- 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

**67-64-1 acetone (10-25%)**

WEL Short-term value: 3620 mg/m<sup>3</sup>, 1500 ppm  
Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm

**67-63-0 propan-2-ol (2.5-10%)**

WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm  
Long-term value: 999 mg/m<sup>3</sup>, 400 ppm

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

- **8.2 Exposure controls**

- **Personal protective equipment**

- **General protective and hygienic measures**

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

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:**

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:** Protective gloves.

- **Material of gloves**

Butyl rubber, BR

Fluorocarbon rubber (Viton)

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**

Material of gloves is recommended for a short-term single use to protect from splashes. For permanent usage contact manufacturer of gloves.

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.

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### SECTION 9: Physical and chemical properties

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

##### - General Information

##### - Appearance:

**Form:** Fluid

**Colour:** Red

**- Smell:** Characteristic

**- pH-value:** Neutral

##### - Change in condition

**Melting point/Melting range:** Not determined

**Boiling point/Boiling range:** > 55 °C

**- Flash point:** < 21 °C

**- Ignition temperature:** 425 °C  
(lowest level for individual components)

**- Self-inflammability:** Product is not selfigniting.

**- Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

##### - Critical values for explosion:

**Lower:** 2.0 Vol %

**Upper:** 15.0 Vol %

(Higher and lower level for individual components)

**- Density at 20 °C** 0.81 g/cm<sup>3</sup>

##### - Solubility in / Miscibility with

**Water:** Fully miscible

**- 9.2 Other information** 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

**- 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:

67-63-0 propan-2-ol

Oral	LD50	4570 mg/kg (rat)
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Dermal	LD50	> 2000 mg/kg (rab)
Inhalative	LC 50 / 4 h	30 mg/l (rat)
<b>67-64-1 acetone</b>		
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rbt)

**- Primary irritant effect:****- on the skin:** Less irritating. Remove lipid skin-film.**- on the eye:** No irritant effect.**- Sensitization:** No sensitizing effect known.**- Additional toxicological information:**

Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

## 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:**

Do not allow to enter drainage system, surface or ground water

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.

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

**\* SECTION 14: Transport information**

- 14.1 UN-Number - ADR, IMDG, IATA	UN1993
- 14.2 UN proper shipping name - ADR	1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, ISOPROPANOL (ISOPROPYL ALCOHOL)), special provision 640D
- IMDG	FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHANOL (ETHYL ALCOHOL))
- IATA	FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHANOL)
- 14.3 Transport hazard class(es) - ADR	
- Class	3 (F1) Flammable liquids.
- Label	3
- IMDG, IATA	
- Class	3 Flammable liquids.
- Label	3
- 14.4 Packing group - ADR, IMDG, IATA	II
- 14.5 Environmental hazards: - Marine pollutant:	Not applicable. No
- 14.6 Special precautions for user - Kemler Number: - EMS Number:	Warning: Flammable liquids. 33 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:	
- ADR	
- Limited quantities (LQ)	1L
- UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHANOL (ETHYL ALCOHOL)), special provision 640D, 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

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**- 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.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

R11 Highly flammable.

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

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

**- 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 Organization

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.**