

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/01/2022

Reviewed on 12/17/2020

1 Identification

- **Product identifier**
- **Trade name:** LP 163/93
- **Application of the substance / the mixture**
Cleaning material/ Detergent
Restrictions on use apply to this product according to Regulation (EU) no. 1907/2006 Annex XVII (see section 15)
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Riepe GmbH & Co. KG
Theodor Rosenbaum Str. 28-30
32257 Bünde - Deutschland
Tel.: +49 (0) 5223 - 687407-0
Fax: +49 (0) 5223 - 687407-50
E-Mail: info@riepe.eu
- **Information department:**
Tel.: +49 (0) 5223 - 687407-0
E-mail: info@riepe.eu
- **Emergency telephone number:**
Poison Control Center, Mainz
Tel. 00 49 / 61 31 / 19 240

2 Hazard(s) identification

- **Classification of the substance or mixture**

Flammable Liquids 2	H225 Highly flammable liquid and vapor.
Eye Irritation 2A	H319 Causes serious eye irritation.
Carcinogenicity 1A	H350 May cause cancer.
Specific Target Organ Toxicity - Single Exposure 3	H336 May cause drowsiness or dizziness.

- Label elements

- GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms



GHS02 GHS07 GHS08

- Signal word Danger

- Hazard-determining components of labeling:

ethanol
acetone
propan-2-ol

- Hazard statements

Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause cancer.
May cause drowsiness or dizziness.

- Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.

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Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Wear protective gloves / eye protection / face protection.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:

- NFPA ratings (scale 0 - 4)

Health = 2

Fire = 3

Reactivity = 0

- HMIS-ratings (scale 0 - 4)

Health = *2

Fire = 3

Reactivity = 0

- Other hazards

- Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

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

- Dangerous components:

64-17-5	ethanol	70-80%
67-64-1	acetone	10-20%
67-63-0	propan-2-ol	< 10%

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

4 First-aid measures

- Description of first aid measures

- General information:

Immediately remove any clothing soiled by the product.

In case of unconsciousness bring patient into stable side position for transport.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

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

- After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- Information for doctor:

- Most important symptoms and effects, both acute and delayed

No further relevant information available.

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- Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **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.
- **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.

6 Accidental release measures

- **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.
- **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Dilute with plenty of water.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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.
Danger of explosion
- **Protective Action Criteria for Chemicals**

- PAC-1:

64-17-5	ethanol	1,800 ppm
67-64-1	acetone	200 ppm
67-63-0	propan-2-ol	400 ppm
78-93-3	2-Butanone	200 ppm

- PAC-2:

64-17-5	ethanol	3300* ppm
67-64-1	acetone	3200* ppm
67-63-0	propan-2-ol	2000* ppm

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78-93-3	2-Butanone	2700* ppm
- PAC-3:		
64-17-5	ethanol	15000* ppm
67-64-1	acetone	5700* ppm
67-63-0	propan-2-ol	12000** ppm
78-93-3	2-Butanone	4000* ppm

7 Handling and storage

- Handling:

- Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

- Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

- Conditions for safe storage, including any incompatibilities

- Storage:

Protect against direct sunlight, other sources of heat and ignition.
Store in cool, dry conditions in well sealed receptacles.

- Requirements to be met by storerooms and receptacles:

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 receptacles.

- Storage class: 3 (VCI - Konzept, 2007)

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

* 8 Exposure controls/personal protection

- Additional information about design of technical systems:

Raumlüftung bzw. Absaugung. Maßnahmen gegen elektrostatische Aufladung.

- Control parameters

- Components with limit values that require monitoring at the workplace:

64-17-5 ethanol

PEL Long-term value: 1900 mg/m³, 1000 ppm

REL Long-term value: 1900 mg/m³, 1000 ppm

TLV Short-term value: 1000 ppm

A3

67-64-1 acetone

PEL Long-term value: 2400 mg/m³, 1000 ppm

REL Long-term value: 590 mg/m³, 250 ppm

TLV Short-term value: 500 ppm

Long-term value: 250 ppm

A4, BEI

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67-63-0 propan-2-ol

PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4

- Ingredients with biological limit values:**67-64-1 acetone**

BEI	25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
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67-63-0 propan-2-ol

BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
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- Additional information: The lists that were valid during the creation were used as basis.

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

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Gases, fumes and aerosols should not be inhaled.

- Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.

- 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: Eye glasses with side protection (EN 166)

- 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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9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Liquid

Color: Red

- Odor: Characteristic

- Odor threshold: Not determined.

- pH-value: Not applicable.

- Melting point/Melting range: ~ -80 °C (~ -112 °F)

- Boiling point/Boiling range: > 65 °C (> 149 °F)

- Flash point: < 21 °C (< 69.8 °F)

- Ignition temperature: 425 °C (797 °F)
Data for ethanol.

- Decomposition temperature: Not determined.

- Explosion limits:

Lower: 2.5 Vol % (EN 1839)

Upper: 15 Vol % (etanol)

- Vapor pressure at 50 °C (122 °F): < 110 kPa

- Density at 20 °C (68 °F): ~ 0.81 g/cm³ (~ 6.759 lbs/gal)

- Relative density: Not determined.

- Vapor density: Not determined.

- Evaporation rate: Not determined.

- Solubility in / Miscibility with

Water: Soluble.

- Partition coefficient (n-octanol/water): Not determined.

- Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

- Solvent content:

VOC content: 89.9 %

- Other information: No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.

- Chemical stability

- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

To avoid: warmth, flames, sparks

- **Possibility of hazardous reactions** No dangerous reactions known.

- **Conditions to avoid** No further relevant information available.

- **Incompatible materials:** strong oxidizing agents

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- **Hazardous decomposition products:** Formation of carbon monoxide and carbon dioxide in case of fire.

* 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

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

64-17-5 ethanol

Oral	LD50	10,470 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC 50 / 4 h	>50 mg/l (rat) (OECD 403) >20 mg/l (mouse)

67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	7,426-15,800 mg/kg (rbt)
Inhalative	LC 50 / 4 h	76 mg/l (rat)

67-63-0 propan-2-ol

Oral	LD50	5,840 mg/kg (rat) (OECD 401) 4,570 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit) 13,400 mg/kg (rab)
Inhalative	LC 50 / 4 h	30 mg/l (rat)

- **Primary irritant effect:**

- **on the skin:** Less irritating. Remove lipid skin-film.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

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

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

64-17-5	ethanol	1
67-63-0	propan-2-ol	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

* 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

64-17-5 ethanol

LC 50 / 48 h	8,140 mg/l (Leuciscus idus)
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EC 50 / 48 h	>10,000 mg/l (<i>Daphnia magna</i>)
EC 50 / 72 h	275 mg/l (<i>Chlorella vulgaris</i>) (OECD 201)
67-64-1 acetone	
LC 50 / 96 h	7,500 mg/l (<i>Leuciscus idus</i>) 5,540 mg/l (<i>Oncorhynchus mykiss</i>)
EC 50 / 48 h	8,800 mg/l (<i>Daphnia magna</i>)
EC 50 / 96 h	8,300 mg/l (<i>Lepomis macrochirus</i>) 7,500 mg/l (<i>Selenastrum capricornutum</i>)
67-63-0 propan-2-ol	
LC 50 / 96 h	>10,000 mg/l (<i>Pimephales promelas</i>) (OECD 203 (Acute toxicity - fish))
LC 50 / 48 h	>100 mg/l (<i>Leuciscus idus</i>)
EC 50 / 48 h	>100 mg/l (<i>Daphnia magna</i>)
EC 50 / 16 h	1,050 mg/l (<i>Pseudomonas putida</i>) (DIN 38412 T.8)
EC 50 / 72 h	>100 mg/l (<i>Scenedesmus subspicatus</i>)
- Persistence and degradability	
67-63-0 propan-2-ol	
Biodegradability	49 % /BOD/ThBOD
Biolog. Abbaubarkeit	53 % /5 d, BSB5/CS (92/69/EG (L383) C.5 * Abbaubarkeit)
CSB	2.23 mg O2/g (Methode : Verordnung (EC) Nr. 440/2008, Anhang, C.)
BSB5	1.72 mg O2/g (Methode : Verordnung (EC) Nr. 440/2008, Anhang, C.)

- Behavior in environmental systems:**- Bioaccumulative potential** No further relevant information available.**- Mobility in soil** No further relevant information available.**- Ecotoxicological effects:****- Bacteria inhibition EC 20 (mg/l according to ISO 8192 B):****64-17-5 ethanol**EC 50 (static) >100 mg/l (*Chlorella pyrenoidosa*) (OECD 201)**- 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

- Results of PBT and vPvB assessment**- PBT:** Not applicable.**- vPvB:** Not applicable.**- Other adverse effects** No further relevant information available.

*13 Disposal considerations

- 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.

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- Waste disposal key:

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.

14 Transport information

- UN-Number	UN1993
- DOT, ADR/RID, IMDG, IATA	UN1993
- UN proper shipping name	Flammable liquids, n.o.s. (Ethanol, Acetone)
- DOT	1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), ACETONE), special provision 640D
- ADR/RID	FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), ACETONE)
- IMDG	FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), ACETONE)
- IATA	FLAMMABLE LIQUID, N.O.S. (ETHANOL, ACETONE)
- Transport hazard class(es)	
- DOT, IMDG, IATA	3 Flammable liquids
- Class	3
- Label	3
- ADR/RID	
- Class	3 (F1) Flammable liquids
- Label	3
- Packing group	II
- DOT, ADR/RID, IMDG, IATA	II
- Environmental hazards:	Not applicable.
- Marine pollutant:	No
- Special precautions for user	Warning: Flammable liquids
- Hazard identification number (Kemler code):	33
- EMS Number:	F-E, S-E
- Stowage Category	B
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
- Transport/Additional information:	
- ADR/RID	
- Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

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- IMDG	
- Limited quantities (LQ)	1L
- Excepted quantities (EQ)	Código E4 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S., SPECIAL PROVISION 640D (ETHANOL (ETHYL ALCOHOL), ACETONE), 3, II

*15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **TSCA (Toxic Substances Control Act):**
All ingredients are listed.

64-17-5	ethanol
67-64-1	acetone
67-63-0	propan-2-ol
7732-18-5	water, distilled, conductivity or of similar purity
78-93-3	2-Butanone

- **Hazardous Air Pollutants**

None of the ingredients is listed.

- **National regulations:**

- **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

- **VOC:**

96.93 volatile organic compounds (Swiss Ordinance on the Incentive Tax on Volatile Organic Compounds).

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Registration-Number**

- **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.

- **Department issuing SDS:** see item 1: Informing department

- **Contact:**

- **Date of preparation / last revision** 04/01/2022 / 110

- **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

LEV: Local Exhaust Ventilation

RPE: Respiratory Protective Equipment

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

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

DOT: US Department of Transportation

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*IATA: International Air Transport Association**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)**NFPA: National Fire Protection Association (USA)**HMIS: Hazardous Materials Identification System (USA)**TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)**VOC: Volatile Organic Compounds (USA, EU)**ISO: International Organisation for Standardisation**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**vPvB: very Persistent and very Bioaccumulative**OSHA: Occupational Safety & Health**TLV: Threshold Limit Value**PEL: Permissible Exposure Limit**REL: Recommended Exposure Limit**BEI: Biological Exposure Limit**Flammable Liquids 2: Flammable liquids – Category 2**Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A**Carcinogenicity 1A: Carcinogenicity – Category 1A**Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3***- * Data compared to the previous version altered.**

USA
