

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

Printing date 28.05.2019

Version number 204

Revision: 11.12.2017

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****- 1.1 Product identifier****- Trade name** ISOPRO-Reiniger**- Article number:** LOS9640**- CAS Number:**  
67-63-0**- EC number:**  
200-661-7**- Index number:**  
603-117-00-0**- REACH-Registration number** 01-2119457558-25**- 1.2 Relevant identified uses of the substance or mixture and uses advised against***For details on the identifiable uses according to EC-regulation No. 1907/2006 see annex of this safety data sheet.***- Application of the substance / the mixture** Solvents**- 1.3 Details of the supplier of the safety data sheet****- Manufacturer/Supplier:**

EURO-LOCK Vertriebs-GmbH

Nordweststr. 3

D - 59387 Ascheberg

Tel.: +49 (0) 2593 95887-0

**- Informing department:**

Tel.: +49 (0) 2593 95887-0

E-mail: [info@euro-lock.de](mailto:info@euro-lock.de)**- 1.4 Emergency telephone number:**

Tel.: +49 (0) 2593 95887-0

Monday - Thursday 8:00 - 17:00 CET, Friday 8:00 - 13:00 CET

**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 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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- P243 Take precautionary measures against static discharge.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 IF ON SKIN (or hair): 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.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**- 2.3 Other hazards****- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****- 3.1 Substances****- CAS No. Designation:**

67-63-0 propan-2-ol

**- Identification no(s):****- EC number:** 200-661-7**- Index number:** 603-117-00-0**SECTION 4: First aid measures****- 4.1 Description of first aid measures****- General advice:**

Instantly remove any clothing soiled by the product.

Take affected persons into the open air.

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

**- Information for doctor**

Therapy, such as in acute ethanol intoxication. Risk of respiratory paralysis.

Monitor liver and kidney functions. Gastric lavage. If unconscious, gastric lavage without intubation.

**- 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.

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- **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 full protective suit with self-contained breathing apparatus.*
  - **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:**  
*Do not allow to enter drainage system, surface or ground water.  
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).  
Ensure adequate ventilation.  
Dispose of contaminated material as waste according to item 13.*
  - **6.4 Reference to other sections** *Danger of explosion*
- 

### 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 repeated or long term skin contact.*
  - **Information about protection against explosions and fires:**  
*Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Fumes can combine with air to form an explosive mixture.*
  - **7.2 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 containers.*
  - **Requirements to be met by storerooms and containers:**  
*Observe official regulations on storage and handling of water hazardous substances  
Suitable material for containers and conduit: steel or stainless steel.  
Unsuitable materials: most plastics, aluminum, neoprene rubber.*
  - **Information about storage in one common storage facility:**  
*Keep away from oxidizing agents and strong acids or alkali.  
Pay attention to regulations / technical guidelines on mixed storage of toxic substances*
  - **Further information about storage conditions:**
  - **Recommended storage temperature:** 5 - 25 °C
  - **Storage class** 3 (VCI - Konzept, 2007)
  - **7.3 Specific end use(s)** *Commercial use.*
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**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:**

**67-63-0 propan-2-ol (50-100%)**

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

Oral	DNEL (population)	26 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (worker)	888 mg/kg bw/day (Long-term - systemic effects)
	DNEL (population)	319 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (worker)	500 mg/m <sup>3</sup> (Long-term - systemic effects)
	DNEL (population)	89 mg/m <sup>3</sup> (Long-term - systemic effects)

- **PNECs**

PNEC aqua	140.9 mg/l (fresh water)
	140.9 mg/l (marine water)
PNEC	2251 mg/l (sewage treatment plant)
PNEC sediment	552 mg/kg dw (fresh water)
	552 mg/kg dw (marine water)
PNEC	140.9 (intermittent releases)
PNEC soil	28 mg/kg (soil)

- **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**

Wash hands during breaks and at the end of the work.  
 Keep away from food, beverages and fodder.  
 Instantly remove any soiled and impregnated garments.  
 Avoid contact with the eyes and skin.  
 Gases, fumes and aerosols should not be inhaled.

- **Breathing equipment:**

Not necessary if room is well-ventilated.  
 Respiratory protection necessary at exposure limit excess, insufficient ventilation, insufficient exhaustion, prolonged exposure, handling of large amounts.

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

Combination filter A-P1  
 Take care of limitations and rules for the use of breathing protection equipment (BGR 190).

- **Protection of hands:**

Protective gloves.  
 Check the permeability prior to each anewed use of the glove.

- **Material of gloves**

Nitrile rubber, NBR, recommended thickness of the material: ≥ 0.35 mm, penetration time: ≥ 480 min.  
 Butylrubber, BR, recommended thickness of the material: ≥ 0.5 mm, penetration time: ≥ 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.

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**- Penetration time of glove material**

Note information regarding permeation rate, penetration times and the degradation supplied by the manufacturer of gloves just as workplace-specific conditions.

Change gloves if notice sign of disenchantment.

**- As protection from splashes gloves made of the following materials are suitable:**

Chloroprene rubber, CR, recommended thickness of the material:  $\geq 0.5$  mm, penetration time:  $\geq 240$  min.

**- Not suitable are gloves made of the following materials:**

PVC gloves

Natural rubber, NR

**- Eye protection:** Tightly sealed safety glasses.

**- Body protection:**

Standard protective working clothes, chemical resistant safety-shoes or wellingtons. If skin contact is possible, wear impenetrable protective clothing.

**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>- Smell:</b>	Alcohol-like
<b>- Odour threshold:</b>	Not determined

**- pH-value:** not applicable

**- Change in condition**

<b>Melting point/freezing point:</b>	-89 °C
<b>Initial boiling point and boiling range:</b>	82 °C (ASTM D 1078)

**- Flash point:** 12 °C (DIN 51758)

**- Ignition temperature:** 425 °C (DIN 51794)

**- Decomposition temperature:** Not determined

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

**- Critical values for explosion:**

<b>Lower:</b>	2 Vol %
<b>Upper:</b>	12 Vol %
<b>- Oxidising properties</b>	No oxidizing properties

**- Vapour pressure at 20 °C:** 42,2 mbar

**- Density at 20 °C** 0,785 g/cm<sup>3</sup> (DIN 51757)

**- Relative density** Not determined

**- Vapour density** Not determined

**- Evaporation rate** Not determined

**- Solubility in / Miscibility with**

**Water:** Fully miscible

**- Partition coefficient: n-octanol/water at 25 °C:** 0,05 log POW

**- Viscosity:**

**dynamic at 20 °C:** 2,43 mPas (DIN 53015)

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<b>kinematic:</b>	Not determined
<b>- 9.2 Other information</b>	Evaporation rate (2-Propanol): 1,2 (n-Butylacetat = 1)

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** see section 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
Keep away from sources of ignition  
No decomposition if used according to specifications.  
Can be distilled without decomposing at normal pressure
- **10.3 Possibility of hazardous reactions**  
Formation of explosive steam/air mixture likely.  
Reacts with strong oxidizing agents  
Reacts with strong acids
- **10.4 Conditions to avoid** To avoid: warmth, flames, sparks
- **10.5 Incompatible materials:**  
alkalies  
strong oxidizing agents  
Strong acids
- **10.6 Hazardous decomposition products:**  
Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions.  
Formation of carbon monoxide and carbon dioxide in case of fire.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

Oral	LD50	4570 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rab) 13400 mg/kg (rab)
Inhalative	LC 50 / 4 h	30 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Prolonged or repeated exposure may cause skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:**
- **Germ cell mutagenicity:** Ames-Test: negativ

- **STOT-repeated exposure:**

Oral	NOAEL	900 mg/kg (rat) ((90d) OECD 408)
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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
no CMR effects available in according to present state of knowledge
- **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.

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- **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:**

LC 50 / 48 h	> 100 mg/l ( <i>Leuciscus idus</i> )
EC 50 / 48 h	> 100 mg/l ( <i>Daphnia magna</i> )
EC 50 / 72 h	> 100 mg/l ( <i>Scenedesmus subspicatus</i> )

**- 12.2 Persistence and degradability**

*Oxidises rapidly by photo-chemical reactions in air.  
 Readily biodegradable*

**- 12.3 Bioaccumulative potential**

*Dissolves in water. Lost within a day by evaporation and dissolution.  
 Large volumes may penetrate soil and could contaminate groundwater.  
 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:**

**- General notes:**

*Do not allow to enter drainage system, surface or ground water  
 Water hazard class 1 (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**

*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:**

**- 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.*

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Caution: Leftovers in the containers may cause the risk of explosion.  
 Uncleaned containers should not be perforated, cut or welded.

**SECTION 14: Transport information**

- 14.1 UN-Number - ADR, IMDG, IATA	UN1219
- 14.2 UN proper shipping name - ADR - IMDG, IATA	1219 ISOPROPANOL (ISOPROPYL ALCOHOL) ISOPROPANOL (ISOPROPYL ALCOHOL)
- 14.3 Transport hazard class(es) - ADR - Class - Label	3 (F1) Flammable liquids. 3
- IMDG, IATA - Class - Label	3 Flammable liquids. 3
- 14.4 Packing group - ADR, IMDG, IATA	II
- 14.5 Environmental hazards: - Marine pollutant:	no
- 14.6 Special precautions for user - Kemler Number: - EMS Number:	Warning: Flammable liquids. 33 F-E,S-D
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- Transport/Additional information: - ADR - Limited quantities (LQ) - Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- Transport category - Tunnel restriction code	2 D/E
- IMDG - Limited quantities (LQ) - Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- UN "Model Regulation":	UN1219, ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II

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### 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 substance is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger

- **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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): 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.

P312 Call a POISON CENTER/doctor if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

- **Directive 2012/18/EU**

- **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

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40

- **National regulations**

- **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

- **VOC:** 100%

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has 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.

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

- **Abbreviations and acronyms:**

NOAEL: No Observed Adverse Effect Level

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)

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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*TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)*

*DNEL: Derived No-Effect Level (REACH)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*vPvB: very Persistent and very Bioaccumulative*

*Flam. Liq. 2: Flammable liquids – Category 2*

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

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