

# SAFETY DATA SHEET

## According to 1907/2006/EC

Print Date: 17.06.2020

Version No. 2

Revision Date: 15.06.2020

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

#### 1.1 Product identifier

ISCOPUR sept\_

Article No.: 120007-5L

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

##### Identified uses

Industrial / Commercial use  
Hand sanitizer

#### 1.3 Einzelheiten Details of the supplier of the safety data sheet

##### Comany:

IDEAL CHEMIE GmbH  
Kressenweg 8-12  
D-44379 Dortmund  
phone.: +49 (0) 231 96 1344-0  
fax: +49 (0) 231 96 1344-54  
[www.idealchemie.de](http://www.idealchemie.de)  
email: [info@idealchemie.de](mailto:info@idealchemie.de)

**Responsible Department:** Abteilung Labor QM

#### 1.4 Emergency telephone number:

Medizinische Notfallouskunft bei Vergiftungen:  
GIFTINFORMATIONSZENTRUM Bonn: +49 (0) 228 19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flam. Liq. 3 H226 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT einm. 3 H336 May cause drowsiness or dizziness.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

##### Hazard pictograms



GHS02

GHS07

**Signal Word: Danger**

##### Hazard statements

H226 Highly flammable liquid and vapour.

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H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

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## Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P233 Keep container tightly closed.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501 Dispose of contents/container to municipal collection point.

## 2.3 Other hazards

None known

## SECTION 3: Composition/information on ingredients

### 3.2 Mixture Ethanol

Description: Solvent mixture

#### Hazardous components:

|  |         |  |       |
|--|---------|--|-------|
| CAS: 64-17-5<br>EINECS: 200-578-6<br>Reg.no.: 01-2119457610-43 | Ethanol | ☠ Flam. Liq. 2, H225; ☠ Eye Irrit. 2, H319 | ≥ 70% |
|--|---------|--|-------|

#### additional Notes:

The ethanol contained in this preparation has been denatured.

&lt; 1 Vol.% Isopropylalkohol (CAS 67-63-0)

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information:

Remove contaminated clothing immediately. bring those affected to fresh air.

#### After inhalation:

Provide fresh air. Consult a doctor if symptoms persist. In the event of breathing arrest or irregularity, donate respiration or oxygen and call a doctor immediately. In case of unconsciousness place and transport in stable sideways position.

#### after skin contact:

wash skin with soap and water. Consult a doctor if irritation persists.

#### after eye contact:

Immediately rinse eyes with open eyelids for several minutes under running water and consult a doctor.

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**after swallowing:**

Rinse your mouth and drink plenty of water. Do not induce vomiting, seek medical attention immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

irritant effects, respiratory paralysis, Dizziness, inebriation, euphoria, Nausea, Vomiting, narcosis.

**Informations for the doctor:**

Symptomatic treatment (decontamination, vital functions), no specific antidote known.

**4.3 Indication of any immediate medical attention and special treatment needed**

No information available.

## SECTION 5: Firefighting measures

**5.1 Extinguishing media :**

Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder.

**Unsuitable extinguishing media:** Full jet water

**5.2 Special hazards arising from the substance or mixture:**

Combustible. Pay attention to flashback.

Forms explosive mixtures with air at ambient temperatures.

Vapours are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

**5.3 Special protective equipment for firefighters**

In the event of fire, wear self-contained breathing apparatus.

**Further information**

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system. Suppress (knock down) gases/vapours/mists with a water spray jet.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Put on protective equipment and keep unprotected people away.

Extinguish naked flames. Remove ignition sources. Do not smoke. Avoid sparks. Avoid contact with skin, eyes and clothes. Do not inhale vapors. Ventilate affected rooms thoroughly. Take precautionary measures against electrostatic charge.

**6.2 Environmental precautions:**

Dilute with plenty of water.

Prevent entry into sewers, pits, cellars and bodies of water. Inform the responsible authorities if larger quantities are released.

**6.3 Methods and materials for containment and cleaning up:**

Soak up with absorbent material (sand, diatomaceous earth, acid binder, universal binder, sawdust). Provide adequate ventilation.

Dispose contaminated material as waste according to section 13.

**6.4 Reference to other sections**

There is a risk of explosion.

See Section 7 for information on safe handling.

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Information for disposal, see section 13.

See section 8 for information on personal protective equipment.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Keep container tightly closed.

Ensure good ventilation / suction at the workplace. Avoid eye and skin contact.

#### Information about fire and explosion protection:

Keep ignition sources away - do not smoke.

Take precautionary measures against electrostatic charging.

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

#### Storage conditions:

Keep away from direct sunlight and other sources of heat and ignition. Store cool and dry in well sealed containers.

#### Requirements for storage rooms and containers:

Observe laws and regulations on the storage and use of water-polluting substances.

Store in a cool place.

#### Advice on common storage:

Observe regulations / technical rules for the storage of flammable liquids.

#### Further information on storage conditions:

Ensure that storage and transport facilities are adequately grounded. Do not store in aluminum or alloys containing aluminum. Suitable sealants are: butyl rubber, PTFE.

#### Storage class:

3 Flammable liquids (TRGS 510, storage of hazardous substances in portable containers)

**7.3 Specific end use (s):** No further relevant information available.

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

### Additional information on the design of technical systems:

Room ventilation or suction. Measures against electrostatic charge.

### 8.1 Control parameters

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

##### CAS: 64-17-5 Ethanol (50-100%)

|                   |  |
|-------------------|--|
| AGW (Deutschland) | Long term: 380 mg/m <sup>3</sup> , 200 ml/m <sup>3</sup><br>4(II);DFG, Y |
|-------------------|--|

#### DNEL-Values

##### CAS: 64-17-5 Ethanol

|           |                   |  |
|-----------|-------------------|--|
| Oral      | DNEL (population) | 87 mg/kg bw/day (Long-term - systemic effects)       |
| Dermal    | DNEL (worker)     | 343 mg/kg bw/day (Long-term - systemic effects)      |
|           | DNEL (population) | 206 mg/kg bw/day (Long-term - systemic effects)      |
| Inhalativ | DNEL (worker)     | 950 mg/m <sup>3</sup> (Long-term - systemic effects) |

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|                             |  |  |
|-----------------------------|--|--|
|                             | DNEL (population)  | 114 mg/m <sup>3</sup> (Long-term - systemic effects) |
| <b>PNEC-Values</b>          |  |  |
| <b>CAS: 64-17-5 Ethanol</b> |  |  |
| PNEC aqua                   | 0,96 mg/l (Fresh water)<br>0,79 mg/l (Marine water)<br>2,75 mg/l (intermittent releases) |  |
| PNEC                        | 0,63 mg/kg dw (Soil)   |  |
| PNEC sediment               | 3,6 mg/kg dw (Fresh water)<br>2,9 mg/kg dw (Marine water)                                |  |
| PNEC STP                    | 580 mg/l (Sewage treatment plant)  |  |

## 8.2 Exposure controls

### Personal protective equipment:

General protection and hygiene measures:

Keep away from drinks, food and feed. Wash hands before breaks and at the end of work. Take off dirty, soaked clothes immediately. Avoid contact with eyes and skin. Do not inhale gases / vapors / aerosols.

Not suitable for consumption, even in diluted form due to the denaturation.

### Respiratory protection:

Not necessary with good room ventilation.

In case of insufficient ventilation / suction, respiratory protection required.

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

combination filter A-P2

Observe the wearing time limit and rules for the use of breathing apparatus (BGR 190).

### Hand protection:

Chemical resistant protective gloves (EN 374)

Check protective gloves for proper condition before each use.

### Glove material

Butyl rubber, recommended material thickness:  $\geq 0.5$  mm, breakthrough time:  $\geq 480$  min.

The selection of a suitable glove is not only based on the material, but also depend on others Quality characteristics and differ from manufacturer to manufacturer.

### Penetration time of glove material

At the first sign of wear and tear, protective gloves should be replaced. Our recommendation relates to a single short-term use as protection against liquid splashes. For other applications, please contact a glove manufacturer.

### Gloves made of the following materials are suitable as splash protection:

Nitrile rubber, recommended material thickness:  $\geq 0.4$  mm, breakthrough time:  $\geq 120$

**Eye/face protection:** Safety glasses.

**Body protection:** protective clothing

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

#### Appearance:

|                 |                 |
|-----------------|-----------------|
| Form:           | liquid          |
| Colour:         | colourless      |
| Odour:          | sweet           |
| Odor threshold: | Not determined. |

pH (100 g/l) at 20 °C: 7,0

#### Change of state

Melting point / freezing point: -115 °C  
Initial boiling point and boiling range: ~ 78 °C

Flash point: 13 °C (DIN 51755)

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 425 °C  
for pure ethanol

Decomposition temperature: Not determined.

Autoignition temperature: The product is not self-igniting.

Explosive properties: The product is not explosive, however, the formation of explosion-sensitive steam is possible.

#### Explosion limits:

**lower:** ~ 3.5 vol%  
**upper:** ~ 15 vol%

Vapor pressure at 20 ° C: 58,5 hPa

Density at 20 ° C: approx. 0.862 g / cm<sup>3</sup>

Relative density: Not determined.

Vapor density: Not determined.

Evaporation rate: Not determined.

#### Solubility in / Miscibility with

Water: completely miscible

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

#### Viscosity:

**dynamic at 20 ° C:** 1.19 mPas  
**kinematic:** Not determined.

#### 9.2 Other Data

Evaporation rate (ethanol): 8.0 (ether = 1) (DIN 53170)

Evaporation rate (ethanol): 1.7 (nBuAc = 1) (ASTM D 3539)

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## SECTION 10: Stability and reactivity

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

**10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided:**

Distillable without decomposition at normal pressure.

Avoid: heat, flames, sparks

**10.3 Possibility of hazardous reactions**

Reactions with oxygen.

Reactions with strong oxidizing agents.

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

**10.5 Incompatible materials:**

strong oxidizing agents

strong acids

**10.6 Hazardous decomposition products:**

In the event of fire formation of carbon monoxide CO and carbon dioxide CO<sub>2</sub>.

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

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

**Einstufungsrelevante LD/LC50-Values:**

**CAS: 64-17-5 Ethanol**

|            |             |                                    |
|------------|-------------|------------------------------------|
| Oral       | LD50        | 10470 mg/kg (rat)                  |
| Dermal     | LD50        | > 2000 mg/kg (rat)                 |
| Inhalation | LC 50 / 4 h | 38 mg/l (rat)<br>> 20 mg/l (mouse) |

**Primary irritant effect:**

**Skin corrosion / irritation** Based on available data, the classification criteria are not met.

**Serious eye damage / irritation**

Causes serious eye irritation.

**Respiratory / skin sensitization**

Based on the available data, the classification criteria are not met.

**Subacute to chronic toxicity:** Liver damage is possible with chronic exposure.

**Specific target organ toxicity - repeated exposure:**

**CAS: 64-17-5 Ethanol**

|      |       |  |
|------|-------|--|
| Oral | NOAEL | 1760 mg/kg (rat) (OECD 408, 90 d, target organ: liver) |
|------|-------|--|

**Additional toxicological information:**

Vapors are irritating to the upper respiratory tract in higher concentrations. At very high concentrations of lightheadedness, headache and loss of consciousness possible.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** The ingredients of this mixture do not meet the criteria for the CMR categories according to CLP..

**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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**Specific target organ toxicity - single exposure** Based on the available data, the classification criteria are not met.

**Specific target organ toxicity - repeated exposure** Based on the 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:

#### CAS: 64-17-5 Ethanol

|              |                               |
|--------------|-------------------------------|
| LC 50 / 48 h | 8140 mg/l (Leuciscus idus)    |
| EC 50 / 48 h | > 10000 mg/l (Daphnia magna)  |
| EC 50 / 72 h | 275 mg/l (Chlorella vulgaris) |

**12.2 Persistence and degradability** Readily biodegradable.

### 12.3 Bioaccumulative potential

Bioaccumulation is not expected

**12.4 Mobility in soil** The product is water soluble.

#### Additional ecological information:

##### General information:

Must not get into ground water, water bodies or the sewage system.

Water hazard class 1 (self-classification): slightly hazardous to water according to AwSV.

### 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 note refers to the product that has been left as it is and not to processed products. When mixed with other products, other disposal methods may be required; if in doubt, consult the supplier of the product or the local authority.

#### Recommendation:

Must not be disposed together with household garbage. Do not empty into drains.

If possible, have it recycled, otherwise burn or deposit in an approved facility.

#### Waste key number:

Since January 1st, 1999, the waste key numbers have not only been product-related but essentially application-related. The waste code number valid for the application can be found in the European waste catalog.

**Uncleaned packaging:** Disposal according to official regulations.

#### Recommendation:

Empty the container completely and return it to reconditioning or reprocessing. Dispose of the containers only in consultation with the local authorities.

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### SECTION 14: Transport information

|   |   |
|---|---|
| <b>14.1 UN-number</b><br>ADR, IMDG, IATA  | UN1170  |
| <b>14.2 Proper shipping name</b><br>ADR<br>IMDG<br>IATA   | 1170 ETHANOL, SOLUTION (ETHYLALCOHOL<br>, SOLUTION)<br>ETHANOL SOLUTION (ETHYL ALCOHOL<br>SOLUTION)<br>ETHANOL SOLUTION |
| <b>14.3 Class</b><br>ADR<br>Class<br>Plackard   | 3 (F1) Flammable liquids<br>3   |
| <b>IMDG, IATA</b><br>Class<br>Label   | 3 Flammable liquids<br>3  |
| <b>14.4 Packing Group</b><br>ADR, IMDG, IATA  | II  |
| <b>14.5 Environmentally hazardous:</b><br>Marine pollutant:   | Not applicable.<br>No   |
| <b>14.6 Special precautions for user</b><br>Hazard identification number (Kemler number):<br>EMS-umber:<br>Stowage Category | Achtung: Entzündbare flüssige Stoffe<br>33<br>F-E,S-D<br>A  |
| <b>Transport in bulk according to Annex<br/>II of MARPOL 73/78 and the IBC Code</b>   | Not applicable.   |
| <b>Transport / further information:</b><br>ADR<br>Excepted quantities (EQ):   | E2  |

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|                                 |   |
|---------------------------------|---|
| <b>Limited quantities (LQ)</b>  | 1L  |
| <b>Excepted quantities (EQ)</b> | Code: E2<br>Höchste Nettomenge je Innenverpackung: 30 ml<br>Höchste Nettomenge je Außenverpackung: 500 ml     |
| <b>Beförderungskategorie</b>    | 2   |
| <b>Tunnelbeschränkungscode</b>  | D/E   |
| <b>IMDG</b>                     |   |
| <b>Limited quantities (LQ)</b>  | 1L  |
| <b>Excepted quantities (EQ)</b> | Code: E2<br>Highest net amount per inner packaging: 30 ml<br>Highest net quantity per outer packaging: 500 ml |
| <b>UN "Model Regulation":</b>   | UN 1170 ETHANOL, SOLUTION<br>(ETHYLALCOHOL, SOLUTION), 3, II  |

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1907/2006 (REACH), APPENDIX XVII Restriction conditions: 3

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**National legislation:****Technische Anleitung Luft:**

| Klasse | Anteil in % |
|--------|-------------|
| NK     | 50-100      |

**Wassergefährdungsklasse:**

WGK 1 (Selbsteinstufung): schwach wassergefährdend gemäß AwsV.

**15.2 Chemical safety assessment:** For this product a chemical safety assessment was carried out.

## SECTION 16: Other information

The information is based on the current state of our knowledge, but does not constitute any assurance of product properties and do not establish a contractual legal relationship.

**Full text of H-Statements referred to under sections 2 and 3.**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation

**Department issuing data specification sheet: Responsible 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 Organisation

NOAEL: No Observed Adverse Effect Level

LEV: Local Exhaust Ventilation

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC und RCR= Expositionsgrad/DNEL)

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

ELINCS: European List of Notified Chemical Substances

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

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 liquid – Category 2

Eye Irrit. 2: serious eye damage/ Eye irritation/Augenreizung – Category 2

**\* Data compared to the previous version changed**