

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name: ELIX Handdisinfection 484.500, 484.025  
Item no.: WAS.140  
BAuA no.: N-109866 (PT1, PT4)  
UFI-Code.: Q1D0-10DW-F00Q-F4U8

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Alcohol-based Hand Disinfectant

**Uses advised against**

Disinfection of mucous membranes and raw wound

**1.3. Details of the supplier of the safety data sheet**

Company name and address of manufacturer:

ECS Cleaning Solution  
GmbH  
Wolfener Strasse 32-34  
12681 Berlin  
Germany  
Tel: +49(0)30 364 64036  
www.ecsag.com

Compilation date: 01.03.2023

**1.4. Emergency telephone number**

Use your national or local emergency number.  
(DE) +49(0)30-19240

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Classification according to regulation (EC) No. 1272/2008 (CLP/GHS):

|                                                                 |      |
|-----------------------------------------------------------------|------|
| Flammable liquids, Category 2                                   | H225 |
| Eye irritation, Category 2                                      | H319 |
| Specific target organ toxicity<br>- single exposure, Category 3 | H336 |

**2.2. Label elements**

Labelling according to regulation (EC) No. 1272/2008 (CLP/GHS):

Hazard components for labelling:

Propan-2-ol; isopropyl alcohol, isopropanol

Hazard pictograms (GHS):



Signal word: Warning.

Hazard statements:

Flammable liquid and vapour.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

Supplemental Hazard information (EU).

Repeated exposure may cause skin dryness or cracking. (EUH066)

Precautionary statements:

Prevention: Keep away from heat and open flames. No smoking(P210).

Avoid breathing vapours(P261).

Wear protective gloves(P280).

Respond: Get medical advice/attention if you feel unwell(P314).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present  
and easy to do. Continue rinsing(P305+P351+P338).

If eye irritation persists: Get medical advice/attention(P337+P313).

Storage: Store in a closed container(P404)

Disposal: Dispose of contents/container according to local regulations(P501).

Additional information.

Avoid eye contact. The product contains an organic solvent. The product does not contain substances of very high concern (SVHC).

Hazardous components which must be listed on the label:

2-propanol, Isopropanol, Isopropylalcohol

### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Mixture.

### 3.2. Mixture

| Substance                | CAS / EC-no.        | %(w/w) | Classification                                         |
|--------------------------|---------------------|--------|--------------------------------------------------------|
| Ethanol                  | 64-17-5 / 200-578-6 | ≤ 1    | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319               |
| Propan-2-ol, Isopropanol | 67-63-0 / 200-661-7 | ≤ 65   | Flam. Liq. 2 H225<br>Eye Dam. 1 H318<br>Stot SE 3 H336 |

*See full text of H-phrases in Section 16.*

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General: In case of discomfort/accident, contact doctor or causality department. Bring label or safety datasheet.

Eye contact: Rinse thoroughly with plenty of water, minimum 15 minutes. Remove contact lenses, if present and easy to do. Seek medical advice.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms persist or any signs of respiratory distress occurs.

Ingestion: Rinse mouth. Do not induce vomiting. Seek medical help if discomfort or irritation occurs.

### 4.2. Most important symptoms and effects, both acute and delayed

Repeated exposure may cause skin dryness or cracking.

### 4.3. Indication of any immediate medical attention and special treatment needed

If any discomfort arises, treat symptoms and bring safety data sheet when you contact a physician.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable: Alcohol-resistant foam, carbonic acid (CO<sub>2</sub>), powder, water mist.

Unsuitable: Full water jet can spread the fire.

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

Flammable liquid and vapor.

Hazardous combustion products: Carbon oxides (CO<sub>x</sub>).

### 5.3. Advice for fire-fighters

Avoid inhalation of vapours and fumes. Use self-contained breathing apparatus and chemical protection suit, if personal (close) contact is likely.

## SECTION 6: Accidental release measures

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

Use gloves during prolonged or repeated contact.

### 6.2. Environmental precautions

No special environmental precautions required.

### 6.3. Methods and material for containment and cleaning up

Gather and place in suitable container. Dispose of according to local regulations.

### 6.4. Reference to other sections

See section 8 for protective equipment and section 13 for waste disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Always read the label and product information before use. Biocidal products should be handled with caution.

Avoid eye contact. Use protective gloves. See Section 8.

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

Recommended storage temperatures 5 -25°C

### 7.3. Specific end use(s)

See section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Occupational limits:

| Substance   | CAS.    | Limit value (8 hours)           | Country |
|-------------|---------|---------------------------------|---------|
| Ethanol     | 64-17-5 | - / 1900 mg/m <sup>3</sup>      | Poland. |
| Propan-2-ol | 67-63-0 | - / 200 mg/m <sup>3</sup>       |         |
| Ethanol     | 64-17-5 | 500 ppm / 960 mg/m <sup>3</sup> | Germany |
| Propan-2-ol | 67-63-0 | No data available               |         |

Source: GESTIS International Limit Values.

DNEL:

| Substance   | Exposure             | Value                  | Population | Effects  |
|-------------|----------------------|------------------------|------------|----------|
| Ethanol     | Long term Dermal     | 343 mg/kg bw/day       | Workers    | Systemic |
|             | Long term inhalation | 950 mg/m <sup>3</sup>  | Workers    | Systemic |
|             | Short term           | 1900 mg/m <sup>3</sup> | Workers    | Local    |
| Propan-2-ol | Long term Dermal     | 136 mg/kg bw/day       | Workers    | Systemic |
|             | Long term inhalation | 268 mg/m <sup>3</sup>  | Workers    | Systemic |

Source: Registration Dossier - ECHA

PNEC:

| Substance  | Media                  | Value          | Method                          |
|------------|------------------------|----------------|---------------------------------|
| Ethanol    | Freshwater             | 0,96mg/l       | Assessment factor               |
|            | Marine water           | 0,79 mg/l      | Assessment factor               |
|            | Sediment, Fresh water, | 3,6 mg/kg dwt  | equilibrium partitioning method |
|            | Sediment, Marine water | 02,9 mg/kg dwt | equilibrium partitioning method |
|            | STP                    | 580 mg/l       | Assessment factor               |
|            | Soil                   | 0,63 mg/kg dwt | Assessment factor               |
| Propan-2ol | Freshwater             | 10 mg/l        | Assessment factor               |
|            | Marine water           | 1 mg/l         | Assessment factor               |
|            | Sediment, Fresh water  | 22,8 mg/kg dwt | equilibrium partitioning method |
|            | Sediment, Marine water | 2,28 mg/kg dwt | equilibrium partitioning method |
|            | STP                    | 96 mg/l        | Assessment factor               |
|            | Soil                   | 2,2 mg/kg dwt  | equilibrium partitioning method |

Source: Registration Dossier - ECHA

### 8.2. Exposure controls

Use common occupational hygiene.

Eye / Face protection: Avoid contact with eye and eye area during use of wipe.

Hand / skin protection: Safety gloves is recommended, use protective gloves of resilient material.

Respiratory protection: Normally not required. When working in the small non-ventilated spaces use suitable breathing apparatus. Filter type (A).

Environmental exposure controls: Do not flush into sewer system.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic and chemical properties

|                     |           |
|---------------------|-----------|
| Appearance:         | Liquid    |
| Odour:              | alcohol   |
| pH:                 | 4 to 8    |
| Melting point/range | < -20 °C. |
| Boiling point       | 82 °C     |

|                      |                                           |
|----------------------|-------------------------------------------|
| Flash point          | 28 ° C.                                   |
| Auto-flammability:   | > 425 ° C.                                |
| Evaporation rate:    | not available                             |
| Vapour pressure:     | not available                             |
| Oxidising properties | Not oxidising.                            |
| Explosive properties | Not classified as an explosive.           |
| Solubility in water  | the liquid can be diluted in the napkins. |

## 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

None known.

#### 10.2. Chemical stability

Stable at recommended storage temperatures.

#### 10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

#### 10.4. Conditions to avoid

No data available.

#### 10.5. Incompatible materials

Oxidizing agents.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Ethanol

| Type                              |            | Species           | Result              | Method                     |
|-----------------------------------|------------|-------------------|---------------------|----------------------------|
| Acute toxicity                    | Oral       | Rat               | > 14.500 mg/kg      | OECD 401                   |
|                                   | Inhalation | Mouse             | > 114 mg/ml         | OECD 403                   |
|                                   | Dermal     | No data available |                     |                            |
| Skin corrosion/irritation         |            | Human             | Not irritating      | Not a guideline study (4h) |
| Eye damage/ irritation            |            | Rabbit            | Irritating          | OECD 405                   |
| Respiratory or Skin sensitisation |            | No data available |                     |                            |
| Reproductive toxicity             |            | Mouse             | no effects observed | OECD 416                   |

Source: Registration Dossier - ECHA

2-propanol

| Type                              |            | Species | Result            | Method   |
|-----------------------------------|------------|---------|-------------------|----------|
| Acute toxicity                    | Oral       | Rat     | ~8000 mg/kg       | OECD 401 |
|                                   | Inhalation | Rat     | > 26.76 mg/ml     | OECD 403 |
|                                   | Dermal     | Rabbit  | 4032 mg/kg bw     | OECD 402 |
| Skin corrosion/irritation         |            | Rabbit  | Not irritating    | OECD 404 |
| Eye damage/ irritation            |            | Rabbit  | Highly irritating | OECD 405 |
| Respiratory or Skin sensitisation |            | -       | Not a sensitizer  | OECD 406 |

Source: Registration Dossier - ECHA

### SECTION 12: Ecological information

#### 12.1. Toxicity

Eco-toxicological data for the mixture are not available.

Ethanol

| Test             | Species                             | Result      | Duration |
|------------------|-------------------------------------|-------------|----------|
| LC <sub>50</sub> | Fish, <i>fathead minnows</i>        | 14.200 mg/l | 96 h     |
| EC <sub>50</sub> | Daphnia, <i>Daphnia magna</i>       | 454 mg/l    | 249 days |
| EC <sub>50</sub> | Bacteria, <i>Pseudomonas putida</i> | 1500 mg/l   | 96h      |

Source: Registration Dossier - ECHA

2-propanol

| Test             | Species                      | Result     | Duration |
|------------------|------------------------------|------------|----------|
| LC <sub>50</sub> | Fish, <i>fathead minnows</i> | 4555 mg/ml | 96 h     |
| EC <sub>50</sub> | Daphnia                      | 3644 mg/l  | 48h      |

Source: Registration Dossier - ECHA

#### 12.2. Persistence and degradability

Readily biodegradable.

**12.3. Bioaccumulative potential**

No bioaccumulative potential.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

The product contains no identified PBT/vPvB substances.

**12.6. Other adverse effects**

None known

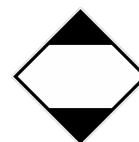
**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Dispose of in accordance with local and national regulation. The penetration of the product into drains, water courses or the soil should be avoided.

**SECTION 14: Transport information**

|                                      | ADR/RID                                                            | ADN                                                                | IMDG                                                               | IATA                                                               |
|--------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>14.1. UN-number</b>               | 1276                                                               | 1276                                                               | 1276                                                               | 1276                                                               |
| <b>14.2. UN proper shipping name</b> | Solids containing flammable liquid, n.o.s. (ethanol, Iso propanol) | Solids containing flammable liquid, n.o.s. (ethanol, Iso propanol) | Solids containing flammable liquid, n.o.s. (ethanol, Iso propanol) | Solids containing flammable liquid, n.o.s. (ethanol, Iso propanol) |
| <b>14.3. Transport hazard class</b>  | 3                                                                  | 3                                                                  | 3                                                                  | 3                                                                  |
| <b>14.4. Packaging group</b>         | III                                                                | III                                                                | III                                                                | III                                                                |

Special provisions (SP): 216, 274.  
 Classification: F1  
 Tunnel restriction code: E 40  
 Hazard identification number:



LQ. Limited quantities; 1 kg.

IMDG, EmS: F-A, S-I  
 IATA, Packing instructions: 353/364

For further specifications and requirements - see the applicable regulations on ADR /RID/IMDG/ICAO.

**14.5. Environmental hazards**

|      |                   |    |
|------|-------------------|----|
| IMDG | Marine pollutant: | No |
| ADR  | Pollutant:        | No |

**14.6. Special precautions for user**

None.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Remarks: Not applicable for product as supplied.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Restrictions for application:

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Sources:

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP). EC regulation 1907/2006 (REACH). Biocidal Products Regulation (EU) No 528/2012 (BPR). Council Directive 93/42/EEC on Medical Devices (MDD) (1993).

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out for the mixture.

**SECTION 16: Other information**

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification. The information in this safety data sheet applies only the product referred to in section 1 and is not valid when used with other products.

Classification according to regulation (EC) No 1272/2008 Of the European Parliament and Of the Council of 16 December 2008; Article 25 and ANNEX I; classification and labelling requirements for hazardous substances and mixtures.

Flam. Liq. 2, H225: On basis of test data.  
Eye Irrit. 2, H319: Bridging principle -Substantially similar mixtures.  
STOT SE 3, H336: Calculation method

List of relevant H-phrases (sections 2 and 3).

H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.

Abbreviations used:

ATE Acute toxicity estimate.  
STOT Specific Target Organ Toxicity.  
OECD Organisation for Economic Co-operation and Development.  
ECHA European Chemicals Agency.  
REACH Registration, Evaluation, Authorisation and Restriction of Chemical Substances.  
DNEL Derived No-Effect Level.  
PNEC Predicted No-Effect Concentration.  
LC<sub>50</sub> Lethal Concentration 50 %  
EC<sub>50</sub> Effect Concentration 50 %  
TGK toxicity threshold concentration.  
PBT Persistent, Bioaccumulative, Toxic  
vPvB very Persistent, very Bioaccumulative  
EmS Emergency Response Procedures for Ships Carrying Dangerous Goods.  
ADR 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 Harmonised System of Classification and Labelling of Chemicals

Key literature references:

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP). EC regulation 1907/2006 (REACH). ECHA registration dossiers.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, through information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific product designated and may not be valid for the product used in combination with any other products, materials or in any process, unless specified in the text. It is always the responsibility of the user, to take all necessary steps in order, to fulfil the demand laid down in local rules and legislation. Final determination of suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The company cannot be held liable for any damage resulting from wrongful handling or other, not specified here, contact with the above product.