

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

Product form : Mixture  
Trade name : STERILE  
UFI : KE34-V0KD-5008-A7F5  
Product code : C053\_450ML  
Type of product : Biocide

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

Main use category : Consumer use  
Use of the substance/mixture : Hand sanitizers

**1.3. Details of the supplier of the safety data sheet****SELDEN RESEARCH LIMITED**

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BUXTON  
DERBYSHIRE  
SK17 9RZ  
UNITED KINGDOM

Tel: 01298 26226  
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**SELDEN EUROPE B.V.**

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NEDERLAND

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Email: sds@selden.eu

**1.4. Emergency telephone number**

| Country/Area   | Organisation/Company   | Address                           | Emergency number   | Comment                              |
|----------------|--|-----------------------------------|--|--------------------------------------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital                     | PO Box 1297<br>Beaumont Road<br>9 | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |                                      |
| United Kingdom | National Poisons Information Service<br>(Birmingham Centre)<br>City Hospital | Dudley Road<br>B18 7QH            | 0344 892 0111  | Only for healthcare<br>professionals |

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Flammable liquids, Category 2 H225  
Serious eye damage/eye irritation, Category 2 H319  
Full text of H- and EUH-statements: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

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|                                |   |
|--------------------------------|---|
| Hazard statements (CLP)        | : H225 - Highly flammable liquid and vapour.<br>H319 - Causes serious eye irritation.   |
| Precautionary statements (CLP) | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.<br>No smoking.<br>P233 - Keep container tightly closed.<br>P403+P235 - Store in a well-ventilated place. Keep cool. |

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name  | Product identifier  | %         | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|-----------|---|
| ethanol; ethyl alcohol<br>substance with national workplace exposure limit(s)<br>(IE, GB) | CAS-No.: 64-17-5<br>EC-No.: 200-578-6<br>EC Index-No.: 603-002-00-5<br>REACH-no: 01-2119457610-43 | $\geq 60$ | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319                        |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Get medical advice/attention if you feel unwell.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Wash with soap and water. If skin irritation occurs: Get medical advice/attention.   |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Get medical advice/attention.  |

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

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : None under normal use.  |
| Symptoms/effects after skin contact | : None under normal conditions.   |
| Symptoms/effects after eye contact  | : Causes eye irritation.  |
| Symptoms/effects after ingestion    | : May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract. |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                              |                                     |
|------------------------------|-------------------------------------|
| Suitable extinguishing media | : Carbon dioxide. Dry powder. Foam. |
|------------------------------|-------------------------------------|

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

Fire hazard : Flammable liquid and vapour.

### 5.3. Advice for firefighters

No additional information available

## SECTION 6: Accidental release measures

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

General measures : Remove ignition sources.

### 6.2. Environmental precautions

No additional information available

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

For containment : Collect spillage.  
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.  
Precautions for safe handling : Keep away from sources of ignition - No smoking.

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

Technical measures : Does not require any specific or particular technical measures.  
Storage conditions : Store in a well-ventilated place. Keep container tightly closed.  
Incompatible products : Oxidizing agent. Strong acids. Strong bases.  
Incompatible materials : Direct sunlight. Heat sources. Sources of ignition.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

#### ethanol; ethyl alcohol (64-17-5)

##### Ireland - Occupational Exposure Limits

|            |          |
|------------|----------|
| Local name | Ethanol  |
| OEL STEL   | 1000 ppm |

##### United Kingdom - Occupational Exposure Limits

|                   |                        |
|-------------------|------------------------|
| Local name        | Ethanol                |
| WEL TWA (OEL TWA) | 1920 mg/m <sup>3</sup> |
|                   | 1000 ppm               |

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### DNEL and PNEC

| ethanol; ethyl alcohol (64-17-5)         |                          |
|--|--------------------------|
| DNEL/DMEL (Workers)                      |                          |
| Acute - local effects, inhalation        | 1900 mg/m <sup>3</sup>   |
| Long-term - systemic effects, dermal     | 343 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 950 mg/m <sup>3</sup>    |
| DNEL/DMEL (General population)           |                          |
| Acute - local effects, inhalation        | 950 mg/m <sup>3</sup>    |
| Long-term - systemic effects, oral       | 87 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation | 114 mg/m <sup>3</sup>    |
| Long-term - systemic effects, dermal     | 206 mg/kg bodyweight/day |
| PNEC (Water)                             |                          |
| PNEC aqua (freshwater)                   | 0.96 mg/l                |
| PNEC aqua (marine water)                 | 0.79 mg/l                |
| PNEC aqua (intermittent, freshwater)     | 2.75 mg/l                |
| PNEC (Sediment)                          |                          |
| PNEC sediment (freshwater)               | 3.6 mg/kg dwt            |
| PNEC sediment (marine water)             | 2.9 mg/kg dwt            |
| PNEC (Soil)                              |                          |
| PNEC soil                                | 0.63 mg/kg dwt           |
| PNEC (Oral)                              |                          |
| PNEC oral (secondary poisoning)          | 0.72 g/kg food           |
| PNEC (STP)                               |                          |
| PNEC sewage treatment plant              | 580 mg/l                 |

### 8.2. Exposure controls

#### Appropriate engineering controls

##### Appropriate engineering controls:

Not required for normal conditions of use.

#### Personal protection equipment

##### Eye and face protection

##### Eye protection:

Not required for normal conditions of use. If there is a risk of liquid being splashed : Safety glasses. ISO 16321-1

##### Skin protection

##### Skin and body protection:

Not required for normal conditions of use

##### Hand protection:

Not relevant

##### Other skin protection

##### Materials for protective clothing:

Not required for normal conditions of use

#### Respiratory protection

##### Respiratory protection:

Not relevant

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### SECTION 9: Physical and chemical properties

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

|   |  |
|---|--|
| Physical state                                  | : Liquid                                 |
| Colour  | : Colourless.                            |
| Appearance                                      | : Mobile liquid.                         |
| Odour   | : characteristic.                        |
| Odour threshold                                 | : Not available                          |
| Melting point                                   | : Not available                          |
| Freezing point                                  | : Not available                          |
| Boiling point                                   | : $\approx 78.3\text{ }^{\circ}\text{C}$ |
| Flammability                                    | : Not available                          |
| Lower explosion limit                           | : Not available                          |
| Upper explosion limit                           | : Not available                          |
| Flash point                                     | : $\approx 18\text{ }^{\circ}\text{C}$   |
| Auto-ignition temperature                       | : Not available                          |
| Decomposition temperature                       | : Not available                          |
| pH  | : 7                                      |
| Viscosity, kinematic                            | : Not available                          |
| Solubility                                      | : Soluble in water.                      |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                          |
| Vapour pressure                                 | : Not available                          |
| Vapour pressure at 50°C                         | : Not available                          |
| Density   | : Not available                          |
| Relative density                                | : 0.87                                   |
| Relative vapour density at 20°C                 | : Not available                          |
| Particle characteristics                        | : Not applicable                         |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Flammable liquid and vapour.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

No additional information available

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                         |                  |
|-------------------------|------------------|
| Acute toxicity (oral)   | : Not classified |
| Acute toxicity (dermal) | : Not classified |

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Acute toxicity (inhalation) : Not classified

### ethanol; ethyl alcohol (64-17-5)

|                                   |  |
|-----------------------------------|--|
| LD50 oral rat                     | 15010 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 14450 - 15560 |
| LD50 oral                         | 10470 mg/kg bodyweight   |
| LD50 dermal                       | 15800 mg/kg bodyweight   |
| LC50 Inhalation - Rat (Dust/Mist) | > 99999 mg/l   |

Skin corrosion/irritation : Not classified  
pH: 7

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 7

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

### ethanol; ethyl alcohol (64-17-5)

|  |  |
|--|--|
| NOAEL (subchronic, oral, animal/male, 90 days)   | < 9700 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)   |
| NOAEL (subchronic, oral, animal/female, 90 days) | > 9400 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents) |

Aspiration hazard : Not classified

## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

### ethanol; ethyl alcohol (64-17-5)

|                                    |  |
|------------------------------------|--|
| LC50 - Fish [1]                    | 14200 mg/l   |
| EC50 - Other aquatic organisms [1] | 5012 mg/l waterflea  |
| EC50 - Other aquatic organisms [2] | 275 mg/l   |
| NOEC (chronic)                     | 9.6 mg/l Test organisms (species): Daphnia magna Duration: '9 d' |

### 12.2. Persistence and degradability

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

### ethanol; ethyl alcohol (64-17-5)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

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## 12.3. Bioaccumulative potential

## ethanol; ethyl alcohol (64-17-5)

|   |       |
|---|-------|
| Partition coefficient n-octanol/water (Log Pow) | -0.32 |
|---|-------|

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

No additional information available




## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

|  |   |
|--|---|
| Regional waste regulation                  | : Dispose of in accordance with relevant local regulations.                                   |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations.                     |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

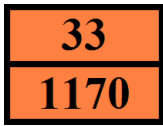
| ADR   | IMDG  | IATA  |
|---|---|---|
| <b>14.1. UN number or ID number</b>   |   |   |
| Not regulated for transport   |   |   |
| <b>14.2. UN proper shipping name</b>  |   |   |
| ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)   | ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)   | Ethanol solution  |
| <b>14.3. Transport hazard class(es)</b>   |   |   |
| 3   | 3   | 3   |
|  |                          |  |
| <b>14.4. Packing group</b>  |   |   |
| II  | II  | II  |
| <b>14.5. Environmental hazards</b>  |   |   |
| Dangerous for the environment: No   | Dangerous for the environment: No<br>Marine pollutant: No<br>EmS-No. (Fire): F-E<br>EmS-No. (Spillage): S-D | Dangerous for the environment: No   |
| No supplementary information available  |   |   |

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### 14.6. Special precautions for user

#### Overland transport

|   |   |
|---|---|
| Classification code (ADR)                                 | : F1  |
| Special provisions (ADR)                                  | : 144, 601  |
| Limited quantities (ADR)                                  | : 1I  |
| Excepted quantities (ADR)                                 | : E2  |
| Packing instructions (ADR)                                | : P001, IBC02, R001   |
| Mixed packing provisions (ADR)                            | : MP19  |
| Portable tank and bulk container instructions (ADR)       | : T4  |
| Portable tank and bulk container special provisions (ADR) | : TP1   |
| Tank code (ADR)   | : LGBF  |
| Vehicle for tank carriage                                 | : FL  |
| Transport category (ADR)                                  | : 2   |
| Special provisions for carriage - Operation (ADR)         | : S2, S20   |
| Hazard identification number (Kemler No.)                 | : 33  |
| Orange plates   | :  |

|                               |        |
|-------------------------------|--------|
| Tunnel restriction code (ADR) | : D/E  |
| EAC code                      | : •2YE |

#### Transport by sea

|                                 |         |
|---------------------------------|---------|
| Special provisions (IMDG)       | : 144   |
| Limited quantities (IMDG)       | : 1 L   |
| Excepted quantities (IMDG)      | : E2    |
| Packing instructions (IMDG)     | : P001  |
| IBC packing instructions (IMDG) | : IBC02 |
| Tank instructions (IMDG)        | : T4    |
| Tank special provisions (IMDG)  | : TP1   |
| Stowage category (IMDG)         | : A     |

#### Air transport

|  |                 |
|--|-----------------|
| PCA Excepted quantities (IATA)               | : E2            |
| PCA Limited quantities (IATA)                | : Y341          |
| PCA limited quantity max net quantity (IATA) | : 1L            |
| PCA packing instructions (IATA)              | : 353           |
| PCA max net quantity (IATA)                  | : 5L            |
| CAO packing instructions (IATA)              | : 364           |
| CAO max net quantity (IATA)                  | : 60L           |
| Special provisions (IATA)                    | : A3, A58, A180 |
| ERG code (IATA)                              | : 3L            |

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

|  |   |
|--|---|
| Other information, restriction and prohibition regulations | : Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and all its amendments and modifications. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 and all its amendments and modifications. |
|--|---|

#### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)



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### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Data sources : 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.

### Full text of H- and EUH-statements:

|              |   |  |
|--------------|---|--|
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |  |
| Flam. Liq. 2 | Flammable liquids, Category 2                 |  |
| H225         | Highly flammable liquid and vapour.           |  |
| H319         | Causes serious eye irritation.                |  |

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

|              |      |                       |
|--------------|------|-----------------------|
| Flam. Liq. 2 | H225 | On basis of test data |
| Eye Irrit. 2 | H319 | Calculation method    |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.