

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

### 1.1. Product identifier

Product form : Mixture  
 Product name : STERILE  
 Product code : C053\_450ML  
 Type of product : Biocide

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

#### 1.2.1. Relevant identified uses

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

#### 1.2.2. Uses advised against

No additional information available

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

**SELDEN RESEARCH LIMITED** STADEN LANE, BUXTON, DERBYSHIRE, SK17 9RZ, UNITED KINGDOM  
 Tel: 01298 26226 Fax: 01298 26540 Email: safety@selden.co.uk

### 1.4. Emergency telephone number

Emergency number Mon to Fri 8.30am to 5.00pm - 01298 26226

## 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  
 Full text of H 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) :



GHS02

Signal word (CLP) : Danger  
 Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.  
 Precautionary statements (CLP) : 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.  
 P403+P235 - Store in a well-ventilated place. Keep cool.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                   | Product identifier  | %     | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------------------|---|-------|---|
| ethanol; ethyl alcohol | (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 | >= 60 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319                        |

Full text of H-statements: see section 16

**Safety Data Sheet**

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

**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 eye contact | : IF IN EYES: 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 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. |
|------------------------------|-------------------------------------|

**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. |
|------------------|----------------------------|

**6.1.1. For non-emergency personnel**

No additional information available

**6.1.2. For emergency responders**

No additional information available

**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**

No additional information available

**8.2. Exposure controls****Materials for protective clothing:**

Not required for normal conditions of use

**Eye protection:**

Not required for normal conditions of use

**Safety Data Sheet**

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

**Skin and body protection:**

Not required for normal conditions of use

**Respiratory protection:**

Not required for normal conditions of use

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|  |                     |
|--|---------------------|
| Physical state                             | : Liquid            |
| Appearance                                 | : Mobile liquid.    |
| Colour                                     | : Colourless.       |
| Odour                                      | : characteristic.   |
| Odour threshold                            | : No data available |
| pH   | : 7                 |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point                              | : No data available |
| Freezing point                             | : No data available |
| Boiling point                              | : ≈ 78.3 °C         |
| Flash point                                | : ≈ 18 °C           |
| Auto-ignition temperature                  | : No data available |
| Decomposition temperature                  | : No data available |
| Flammability (solid, gas)                  | : No data available |
| Vapour pressure                            | : No data available |
| Relative vapour density at 20 °C           | : No data available |
| Relative density                           | : 0.87              |
| Solubility                                 | : Soluble in water. |
| Log Pow                                    | : No data available |
| Viscosity, kinematic                       | : No data available |
| Viscosity, dynamic                         | : No data available |
| Explosive properties                       | : No data available |
| Oxidising properties                       | : No data available |
| Explosive limits                           | : No data available |

**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 toxicological effects**

|                                   |                           |
|-----------------------------------|---------------------------|
| Acute toxicity (oral)             | : Not classified          |
| Acute toxicity (dermal)           | : Not classified          |
| Acute toxicity (inhalation)       | : Not classified          |
| Skin corrosion/irritation         | : Not classified<br>pH: 7 |
| Serious eye damage/irritation     | : Not classified<br>pH: 7 |
| Respiratory or skin sensitisation | : Not classified          |

**Safety Data Sheet**

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|                        |                  |
|------------------------|------------------|
| 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**

|  |  |
|--|--|
| 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

**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**

No additional information available

**12.3. Bioaccumulative potential****ethanol; ethyl alcohol (64-17-5)**

|         |       |
|---------|-------|
| 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. Other adverse effects**

No additional information available

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

No additional information available

**SECTION 14: Transport information**

In accordance with ADR / IATA / IMDG

**14.1. UN number**

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 1170 |
| UN-No. (IMDG) | : UN 1170 |
| UN-No. (IATA) | : UN 1170 |

**14.2. UN proper shipping name**

|                                       |   |
|---------------------------------------|---|
| Proper Shipping Name (ADR)            | : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)                       |
| Proper Shipping Name (IMDG)           | : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)                       |
| Proper Shipping Name (IATA)           | : Ethanol solution  |
| Transport document description (ADR)  | : UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II, (D/E) |
| Transport document description (IMDG) | : UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II        |
| Transport document description (IATA) | : UN 1170 Ethanol solution, 3, II                                 |

**14.3. Transport hazard class(es)****ADR**

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 3 |
|----------------------------------|-----|

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Danger labels (ADR) : 3

**IMDG**

Transport hazard class(es) (IMDG) : 3

Danger labels (IMDG) : 3

**IATA**

Transport hazard class(es) (IATA) : 3

Danger labels (IATA) : 3

**14.4. Packing group**

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

**14.5. Environmental hazards**

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

**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

**Transport by sea**

Special provisions (IMDG) : 144

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

**Safety Data Sheet**

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|                                 |         |
|---------------------------------|---------|
| IBC packing instructions (IMDG) | : IBC02 |
| Tank instructions (IMDG)        | : T4    |
| Tank special provisions (IMDG)  | : TP1   |
| EmS-No. (Fire)                  | : F-E   |
| EmS-No. (Spillage)              | : S-D   |
| 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. Transport in bulk according to Annex II of Marpol and the IBC Code**

IBC code : Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

**15.1.2. National regulations**

No additional information available

**15.2. Chemical safety assessment**

No additional information available

**SECTION 16: Other information**

| 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.                |

SDS EU (REACH Annex II)

*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.*