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

### 1.1. Product identifier

ALSOFT E

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

**Use of the substance/mixture**

Hand disinfectant

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

| | |
|---|---|
| Company name: | Saraya-Europe |
| Street: | Sint-Annadreef 68 b |
| Place: | B-1020 Brussels |
| Telephone: | 0032 2 7902744 |
| Telefax: | 0032 2 4762587 |
| e-mail: | info@saraya-europe.com |

Emergency telephone number: (001) 352 323 3500
Responsible for the safety data sheet: sds@gbk-ingelheim.de

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Indications of danger: Xi - Irritant
R phrases:
Flammable.
Risk of serious damage to eyes.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Vapours may cause drowsiness and dizziness.

**GHS classification**

Hazard categories:
Flammable liquid: Flam. Liq. 2
Serious eye damage/eye irritation: Eye Dam. 1
Specific target organ toxicity - single exposure: STOT SE 3
Hazardous to the aquatic environment: Aquatic Chronic 3
Hazard Statements:
Highly flammable liquid and vapour.
Causes serious eye damage.
May cause drowsiness or dizziness.
Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

**Hazardous components which must be listed on the label**

Propan-2-ol
Propan-1-ol

**Signal word:** Danger

**Pictograms:** GHS02-GHS05-GHS07

**Hazard statements**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H318 | Causes serious eye damage. |
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful to aquatic life with long lasting effects. |

**Precautionary statements**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P261 | Avoid breathing vapour. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |

**Special labelling of certain mixtures**

| | |
|---|---|
| EUH208 | Contains Polyhexamethylene biguanide hydrochloride. May produce an allergic reaction. |

**2.3. Other hazards**

Vapours may form explosive mixture with air.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**Chemical characterization**

Alcoholic, aqueous solution

**Hazardous components**

| EC No | Chemical name | Quantity |
|---|---|---|
| CAS No | Classification | |
| Index No | GHS classification | |
| REACH No | | |
| 200-661-7 | Propan-2-ol | < 65 % |
| 67-63-0 | F - Highly flammable, Xi - Irritant R11-36-67 | |
| 603-117-00-0 | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 | |
| 01-2119457558-25 | | |
| 200-746-9 | Propan-1-ol | < 15 % |
| 71-23-8 | F - Highly flammable, Xi - Irritant R11-41-67 | |
| 603-003-00-0 | Flam. Liq. 2, Eye Dam. 1, STOT SE 3; H225 H318 H336 | |
| 01-2119486761-29 | | |
| | Polyhexamethylene biguanide hydrochloride | < 0,25 % |
| 27083-27-8 | Carc. Cat. 3, T - Toxic, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R22-40-41-43-48/23-50-53 | |
| | Carc. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, STOT RE 1, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H351 H302 H318 H317 H372 H400 H410 | |

Full text of R-, H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

**General information**

Remove contaminated soaked clothing immediately.
If you feel unwell, seek medical advice.

**After inhalation**

Move to fresh air in case of accidental inhalation of vapours.
In the event of symptoms refer for medical treatment.

**After contact with skin**

No specific precautions required.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical treatment by eye specialist.

**After ingestion**

Do not provoke vomiting. Consult physician. Attention in case of vomiting - acute danger of suffocating, produced by foaming

ingredients. Rinse mouth. Make drink some glasses of water. The decision whether to provoke vomiting is to be taken by a physician.

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

Causes serious eye damage.
May cause drowsiness or dizziness.

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

Treat symptoms.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable extinguishing media**

Alcohol-resistant foam, dry chemical, carbon dioxide (CO2), water-spray.

**Unsuitable extinguishing media**

Full water jet.

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

Fire may produce:
Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx).
Chlorine compounds.

**5.3. Advice for firefighters**

Use breathing apparatus with independent air supply.
Protective suit.

**Additional information**

Vapours are heavier than air and spread along ground.
The vapour/air mixture is explosive, even in empty, uncleaned receptacles.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

In case of vapour formation use respirator.
Keep away from heat and sources of ignition.
Do not smoke.
Ensure adequate ventilation.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/ground water.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
Shovel into suitable container for disposal.

**6.4. Reference to other sections**

Observe protective instructions (see Sections 7 and 8).
Information for disposal see section 13.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

**Advice on safe handling**

Ensure adequate ventilation.
Keep container tightly closed in a dry, cool and well-ventilated place.
When using do not eat, drink or smoke.
Avoid contact with eyes.

**Advice on protection against fire and explosion**

Keep product and empty container away from heat and sources of ignition.
Do not smoke - volatile.

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

**Requirements for storage rooms and vessels**
Keep container tightly closed in a dry, cool and well-ventilated place.
Ensure adequate ventilation, especially in confined areas.

**Advice on storage compatibility**
Incompatible with:
Oxidizing agents
Alkaline metals and earth alkaline metals.

**Further information on storage conditions**
Keep away from food, drink and animal feeding stuffs.

**7.3. Specific end use(s)**

Hand disinfectant

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Exposure limits (EH40)**

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|---|---|---|---|---|---|---|
| 71-23-8 | Propan-1-ol | 200 | 500 | | TWA (8 h) | WEL |
| | | 250 | 625 | | STEL (15 min) | WEL |
| 67-63-0 | Propan-2-ol | 400 | 999 | | TWA (8 h) | WEL |
| | | 500 | 1250 | | STEL (15 min) | WEL |

**8.2. Exposure controls**

**Appropriate engineering controls**
Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**
Do not inhale vapours.
When using do not eat, drink or smoke.
Take off immediately all contaminated clothing.
Avoid contact with eyes.
Wash hands before breaks and at the end of workday.

**Eye/face protection**
Safety goggles with side protection (EN 166).
Eye wash bottle with pure water (EN 15154).

**Hand protection**
Protective gloves resistant to chemicals made off butyl, minimum coat thickness 0,7 mm, permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de.
This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.
Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Skin protection**
Long sleeved clothing (EN 368).

**Respiratory protection**
No personal respiratory protective equipment normally required.
Breathing apparatus in the event of aerosol or mist formation.

## SECTION 9: Physical and chemical properties

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

| | | |
|---|---|---|
| Physical state: | Liquid | |
| Colour: | Colourless | |
| Odour: | Alcoholic | |
| Initial boiling point and boiling range: | 82 °C | *) |

| | | |
|---|---|---|
| Flash point: | 21,5 °C | |
| Lower explosion limits: | n.d. | |
| Upper explosion limits: | | |
| Vapour pressure: (at 20 °C) | 42 hPa | *) |
| Density (at 25 °C): | 0,86 g/cm³ | |
| Water solubility: (at 20 °C) | Miscible | |
| Ignition temperature: | n.d. | |
| Solvent content: | < 80 % | |

**9.2. Other information**

*) Propan-2-ol

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reactions with oxidizing agents.
Reactions with alkali metals.
Reactions with earth alkali metals.

**10.4. Conditions to avoid**

Vapour/air mixtures are explosive at intensive warming.
Heating can release vapours which can be ignited.

**10.5. Incompatible materials**

oxidizing agents
Alkaline metals and alkaline earth metals.

**10.6. Hazardous decomposition products**

Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx).
Chlorine compounds.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

**Acute toxicity**

Based on available data, the classification criteria are not met.
No toxicological data available.

**Irritation and corrosivity**

Causes serious eye damage.
Skin irritation: Not classified.

**Sensitising effects**

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

**STOT-single exposure**

May cause drowsiness or dizziness. (Propan-2-ol ), (Propan-1-ol)

**Severe effects after repeated or prolonged exposure**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**Aspiration hazard**

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

**Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

**Practical experience**

**Other observations**
Inhalation of vapours in high concentration can cause narcotic effects.
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## SECTION 12: Ecological information

**12.1. Toxicity**
Ecological data are not available.
Harmful to aquatic life with long lasting effects.

Polyhexamethylene biguanide hydrochloride [M = 10]
LC50/Oncorhynchus mykiss/96 h = 0,026 mg/l
EC50/Daphnia magna/48 h = 0,09 mg/l [OECD 202]
ErC50/Pseudokirchneriela subcapitata/72 h = 0,0191 mg/l [OECD 201]

**12.2. Persistence and degradability**
No data available.

**12.3. Bioaccumulative potential**
No data available.

**12.4. Mobility in soil**
No data available.

**12.5. Results of PBT and vPvB assessment**
No data available.

**12.6. Other adverse effects**
Low hazard to waters.

**Further information**
This concentrate is not allowed to be released into the sewerage, surface water or groundwater.
Ecological injuries are not known or expected under normal use.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Advice on disposal**
Can be incinerated, when in compliance with local regulations.
Where possible recycling is preferred to disposal.

**Waste disposal number of waste from residues/unused products**

| | |
|---|---|
| 070604 | WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; other organic solvents, washing liquids and mother liquors<br>Classified as hazardous waste. |

**Contaminated packaging**
Empty containers should be taken for local recycling, recovery or waste disposal.
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
Packaging that cannot be cleaned should be disposed of like the product.

## SECTION 14: Transport information

**Land transport (ADR/RID)**

| | |
|---|---|
| **14.1. UN number:** | UN1987 |
| **14.2. UN proper shipping name:** | ALCOHOLS, N.O.S. (Propan-2-ol, Propan-1-ol) |
| **14.3. Transport hazard class(es):** | 3 |
| **14.4. Packing group:** | II |
| Hazard label: | 3 |

| | |
|---|---|
| Classification code: | F1 |
| Limited quantity: | 1 L / 30 kg |
| Transport category: | 2 |
| Hazard No: | 33 |
| Tunnel restriction code: | D/E |

**Inland waterways transport (ADN)**

| | |
|---|---|
| **14.1. UN number:** | UN1987 |
| **14.2. UN proper shipping name:** | ALCOHOLS, N.O.S. (Propan-2-ol, Propan-1-ol) |
| **14.3. Transport hazard class(es):** | 3 |
| **14.4. Packing group:** | II |
| Hazard label: | 3 |


| | |
|---|---|
| Classification code: | F1 |
| Limited quantity: | 1 L / 30 kg |

**Marine transport (IMDG)**

| | |
|---|---|
| **14.1. UN number:** | UN1987 |
| **14.2. UN proper shipping name:** | ALCOHOLS, N.O.S. (propan-2-ol, propan-1-ol) |
| **14.3. Transport hazard class(es):** | 3 |
| **14.4. Packing group:** | II |
| Hazard label: | 3 |


| | |
|---|---|
| Marine pollutant: | No |
| Limited quantity: | 1 L / 30 kg |
| EmS: | F-E, S-D |

**Air transport (ICAO)**

| | |
|---|---|
| **14.1. UN number:** | UN1987 |
| **14.2. UN proper shipping name:** | ALCOHOLS, N.O.S. (propan-2-ol, propan-1-ol, mixture) |
| **14.3. Transport hazard class(es):** | 3 |
| **14.4. Packing group:** | II |
| Hazard label: | 3 |


| | |
|---|---|
| Limited quantity Passenger: | Y341 / 1 L |
| IATA-packing instructions - Passenger: | 353 |
| IATA-max. quantity - Passenger: | 5 L |
| IATA-packing instructions - Cargo: | 364 |
| IATA-max. quantity - Cargo: | 60 L |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

Handle in accordance with good industrial hygiene and safety practice.

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

The transport takes place only in approved and appropriate packaging.

## SECTION 15: Regulatory information

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

**EU regulatory information**

| | |
|---|---|
| 1999/13/EC (VOC): | < 80 % |

**National regulatory information**

| | |
|---|---|
| Employment restrictions: | Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing. |

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

**Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
CAS = Chemical Abstract Service
EN = European norm
ISO = International Organization for Standardization
DIN = Deutsche Industrie Norm
PBT = Persistent Bioaccumulative and Toxic

LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

**Relevant R-phrases (Number and full text)**

| | |
|---|---|
| 11 | Highly flammable. |
| 22 | Harmful if swallowed. |
| 36 | Irritating to eyes. |
| 40 | Limited evidence of a carcinogenic effect. |
| 41 | Risk of serious damage to eyes. |
| 43 | May cause sensitisation by skin contact. |
| 48/23 | Toxic: danger of serious damage to health by prolonged exposure through inhalation. |
| 50 | Very toxic to aquatic organisms. |
| 53 | May cause long-term adverse effects in the aquatic environment. |
| 67 | Vapours may cause drowsiness and dizziness. |

**Relevant H- and EUH-phrases (Number and full text)**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH208 | Contains Polyhexamethylene biguanide hydrochloride. May produce an allergic reaction. |

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents

and irregularities.
The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.
The delivery specifications are contained in the corresponding product sheet.
This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.
(n.a. = not applicable; n.d. = not determined)

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*