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|-----------------------------------------------------------------------------------|--------------------------|-------------------------|
|  | <b>SAFETY DATA SHEET</b> | Page : 1 / 19           |
|                                                                                   |                          | Revision nr : 1.1       |
|                                                                                   | <b>Händedesinfektion</b> | Issue date : 18/03/2020 |
|                                                                                   |                          | Supersedes :            |

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

### 1.1. Product identifier

Product form : Mixture  
 Trade name/designation : Händedesinfektion  
 Product group : Trade product  
 Document no. : 826xxx

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Disinfection

#### 1.2.2. Uses advised against

No data available

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

EUROLUB GmbH  
 Freisinger Strasse 25-27  
 85386 Eching / Germany  
 T +49-8165 95 91-0  
 Info@eurolub.com

### 1.4. Emergency telephone number

| Country        | Official advisory body                                                                                             | Address                                                     | Emergency number                                                                                           |
|----------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital                                                           | Beaumont Hospital Beaumont Road<br>9 Dublin                 | +353 1 809 21 66 (public,<br>8am - 10pm, 7/7)<br>+353 01 809 2566<br>(Professionals, 24/7)                 |
| United Kingdom | National Poisons Information Service<br>(Newcastle Centre)<br>Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place<br>Newcastle-upon-Tyne<br>NE1 4LP Newcastle | 0844 892 0111 (UK only,<br>Monday to Friday, 08.00<br>to 18.00 hours,<br>healthcare professionals<br>only) |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225

Eye Irrit. 2 H319

Full text of hazard classes and H-statements : see section 16

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms :



Signal word : Danger

|                                                                                   |                                                        |                         |
|-----------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------|
|  | <h1 style="text-align: center;">SAFETY DATA SHEET</h1> | Page : 2 / 19           |
|                                                                                   |                                                        | Revision nr : 1.1       |
|                                                                                   |                                                        | Issue date : 18/03/2020 |
|                                                                                   | <h2 style="text-align: center;">Händedesinfektion</h2> | Supersedes :            |

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|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard statements         | : H225 - Highly flammable liquid and vapour.<br>H319 - Causes serious eye irritation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Precautionary statements  | : P101 If medical advice is needed, have product container or label at hand.<br>P102 Keep out of reach of children.<br>P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.<br>P233 Keep container tightly closed.<br>P243 Take precautionary measures against static discharge.<br>P273 Avoid release to the environment.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 Immediately call a POISON CENTER or doctor.<br>P501 Dispose of container to national regulations. |
| <b>2.3. Other hazards</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Other hazards             | : PBT/vPvB data : The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

| Substance name    | Product identifier                                                                                   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-------------------|------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------|
| Ethanol           | (CAS No) 64-17-5<br>(EC no) 200-578-6<br>(EC Index) 603-002-00-5<br>(REACH-no) 01-2119457610-43-0122 | 50 -100 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319                        |
| Glycerol          | (CASNo)56-81-5                                                                                       | < 2     |                                                                 |
| Hydrogen Peroxide | (CASNo)7722-84-1                                                                                     | < 0,2   | H271, H302, H314, H332, H335, H412                              |

#### Specific concentration limits:

| Substance name | Product identifier                                                                                   | Specific concentration limits |
|----------------|------------------------------------------------------------------------------------------------------|-------------------------------|
| Ethanol        | (CAS No) 64-17-5<br>(EC no) 200-578-6<br>(EC Index) 603-002-00-5<br>(REACH-no) 01-2119457610-43-0122 | (C >= 50) Eye Irrit. 2, H319  |

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                   |                                                                                                                                                                                                                                                                                                          |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional advice | : First aider: Pay attention to self-protection. See also section 8. Never give anything by mouth to an unconscious person or a person with cramps. Show this safety data sheet to the doctor in attendance. Treat symptomatically. In case of doubt or persistent symptoms, consult always a physician. |
| Inhalation        | : Keep at rest. Provide fresh air. In case of doubt or persistent symptoms, consult always a physician.                                                                                                                                                                                                  |
| Skin contact      | : After contact with skin, wash immediately with plenty of water and soap. In case of doubt or persistent symptoms, consult always a physician.                                                                                                                                                          |
| Eye contact       | : Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. In case of doubt or persistent symptoms, consult always a physician.                                                                                 |

|                                                                                   |                          |                         |
|-----------------------------------------------------------------------------------|--------------------------|-------------------------|
|  | <b>SAFETY DATA SHEET</b> | Page : 3 / 19           |
|                                                                                   |                          | Revision nr : 1.1       |
|                                                                                   |                          | Issue date : 18/03/2020 |
|                                                                                   | <b>Händedesinfektion</b> | Supersedes :            |

In case of ingestion : Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Get medical advice/attention.

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

Inhalation : May cause respiratory irritation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Skin contact : May be irritating.

Eye contact : Irritating to eyes.

Ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

In case of doubt or persistent symptoms, consult always a physician.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media : Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.

Unsuitable extinguishing media : Strong water jet.

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

Specific hazards : Vapours can form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation. Hazardous decomposition products COx.

#### **5.3. Advice for firefighters**

Firefighting instructions : Special protective equipment for firefighters. Use water spray or fog for cooling exposed containers. In case of fire: Wear self-contained breathing apparatus. Evacuate personnel to a safe area.

### **SECTION 6: Accidental release measures**

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

##### **6.1.1. For non-emergency personnel**

For non-emergency personnel : Evacuate personnel to a safe area. Stay upwind/keep distance from source. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Avoid contact with skin, eyes and clothing. Do not breathe vapour/aerosol. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Remove all sources of ignition. Ensure equipment is adequately earthed. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Use only non-sparking tools.

##### **6.1.2. For emergency responders**

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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

Methods for cleaning up : Stop leak if safe to do so. Clean-up methods - small spillage: : Leave to vapourize. Ventilate the area. Clean-up methods - large spillage: : Dam up. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Collect in closed and suitable containers for disposal. Large spills should be collected mechanically (remove by pumping) for disposal. Dispose of as special waste in compliance with local and national regulations. Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

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|------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|
| <br>LUBRICANTS · ADDITIVES · CAR CARE | <b>SAFETY DATA SHEET</b> | Page : 4 / 19           |
|                                                                                                                        |                          | Revision nr : 1.1       |
|                                                                                                                        | <b>Händedesinfektion</b> | Issue date : 18/03/2020 |
|                                                                                                                        |                          | Supersedes :            |

#### 6.4. Reference to other sections

Reference to other sections: 8 & 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Avoid contact with skin, eyes and clothing. Do not breathe vapour/aerosol. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Take any precaution to avoid mixing with incompatible materials. See also section 10. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). After use replace the closing cap immediately. Do not allow to enter into surface water or drains.

Hygiene measures

: Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. Keep work clothes separately. Take off contaminated clothing. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke.

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

Technical measures

: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not store near or with any of the incompatible materials listed in section 10.

Packaging materials

: Keep/Store only in original container. Recommended packaging materials : Stainless steel. Titanium. Bronze. Iron. Carbon steel. Polypropylene. Neoprene. Nylon. Viton ®. Ceramic. Glass. Incompatible with : NR (natural rubber, natural latex), PVC (Polyvinyl chloride), Methyl methacrylate, plastics, polyamide, zinc, Brass, Aluminium.

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

No data available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| EU       | IOELV TWA (mg/m <sup>3</sup> )                                           | 52 mg/m <sup>3</sup>  |
|----------|--------------------------------------------------------------------------|-----------------------|
| EU       | IOELV TWA (ppm)                                                          | 20 ppm                |
| EU       | IOELV STEL (mg/m <sup>3</sup> )                                          | 104 mg/m <sup>3</sup> |
| EU       | IOELV STEL (ppm)                                                         | 40 ppm                |
| Austria  | MAK (mg/m <sup>3</sup> )                                                 | 26 mg/m <sup>3</sup>  |
| Austria  | MAK (ppm)                                                                | 10 ppm                |
| Austria  | MAK Short time value (mg/m <sup>3</sup> )                                | 52 mg/m <sup>3</sup>  |
| Austria  | MAK Short time value (ppm)                                               | 20 ppm                |
| Bulgaria | OEL TWA (mg/m <sup>3</sup> )                                             | 52 mg/m <sup>3</sup>  |
| Bulgaria | OEL TWA (ppm)                                                            | 20 ppm                |
| Bulgaria | OEL STEL (mg/m <sup>3</sup> )                                            | 104 mg/m <sup>3</sup> |
| Bulgaria | OEL STEL (ppm)                                                           | 40 ppm                |
| Croatia  | GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )               | 52 mg/m <sup>3</sup>  |
| Croatia  | GVI (granična vrijednost izloženosti) (ppm)                              | 20 ppm                |
| Croatia  | KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> ) | 104 mg/m <sup>3</sup> |
| Croatia  | KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)                | 40 ppm                |
| Cyprus   | OEL TWA (mg/m <sup>3</sup> )                                             | 52 mg/m <sup>3</sup>  |
| Cyprus   | OEL TWA (ppm)                                                            | 20 ppm                |

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|------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|
| <br>LUBRICANTS · ADDITIVES · CAR CARE | <b>SAFETY DATA SHEET</b> | Page : 5 / 19           |
|                                                                                                                        |                          | Revision nr : 1.1       |
|                                                                                                                        | <b>Händedesinfektion</b> | Issue date : 18/03/2020 |
|                                                                                                                        |                          | Supersedes :            |

| Cyprus         | OEL STEL (mg/m <sup>3</sup> )                                   | 104 mg/m <sup>3</sup>                                                                                                 |
|----------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Cyprus         | OEL STEL (ppm)                                                  | 40 ppm                                                                                                                |
| Czech Republic | Expoziční limity (PEL) (mg/m <sup>3</sup> )                     | 50 mg/m <sup>3</sup>                                                                                                  |
| Denmark        | Grænseværdie (langvarig) (mg/m <sup>3</sup> )                   | 26 mg/m <sup>3</sup><br>10 mg/m <sup>3</sup> (vapor)                                                                  |
| Denmark        | Grænseværdie (langvarig) (ppm)                                  | 10 ppm                                                                                                                |
| Estonia        | OEL TWA (mg/m <sup>3</sup> )                                    | 52 mg/m <sup>3</sup> (total concentration of aerosol and vapor)                                                       |
| Estonia        | OEL TWA (ppm)                                                   | 20 ppm (total concentration of aerosol and vapor)                                                                     |
| Estonia        | OEL STEL (mg/m <sup>3</sup> )                                   | 104 mg/m <sup>3</sup> (total concentration of aerosol and vapor)                                                      |
| Estonia        | OEL STEL (ppm)                                                  | 40 ppm (total concentration of aerosol and vapor)                                                                     |
| Finland        | HTP-arvo (8h) (mg/m <sup>3</sup> )                              | 50 mg/m <sup>3</sup>                                                                                                  |
| Finland        | HTP-arvo (8h) (ppm)                                             | 20 ppm                                                                                                                |
| Finland        | HTP-arvo (15 min)                                               | 100 mg/m <sup>3</sup>                                                                                                 |
| Finland        | HTP-arvo (15 min) (ppm)                                         | 40 ppm                                                                                                                |
| France         | VME (mg/m <sup>3</sup> )                                        | 52 mg/m <sup>3</sup> (indicative limit-vapor)                                                                         |
| France         | VME (ppm)                                                       | 20 ppm (indicative limit-vapor)                                                                                       |
| France         | VLE (mg/m <sup>3</sup> )                                        | 104 mg/m <sup>3</sup> (indicative limit-vapor)                                                                        |
| France         | VLE (ppm)                                                       | 40 ppm (indicative limit-vapor)                                                                                       |
| Germany        | TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> ) | 26 mg/m <sup>3</sup> (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Germany        | TRGS 900 Occupational exposure limit value (ppm)                | 10 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)               |
| Gibraltar      | OEL TWA (mg/m <sup>3</sup> )                                    | 52 mg/m <sup>3</sup>                                                                                                  |
| Gibraltar      | OEL TWA (ppm)                                                   | 20 ppm                                                                                                                |
| Gibraltar      | OEL STEL (mg/m <sup>3</sup> )                                   | 104 mg/m <sup>3</sup>                                                                                                 |
| Gibraltar      | OEL STEL (ppm)                                                  | 40 ppm                                                                                                                |
| Greece         | OEL TWA (mg/m <sup>3</sup> )                                    | 125 mg/m <sup>3</sup> (vapor)                                                                                         |
| Greece         | OEL TWA (ppm)                                                   | 50 ppm (vapor)                                                                                                        |
| Greece         | OEL STEL (mg/m <sup>3</sup> )                                   | 125 mg/m <sup>3</sup> (vapor)                                                                                         |
| Greece         | OEL STEL (ppm)                                                  | 50 ppm (vapor)                                                                                                        |
| Hungary        | AK-érték                                                        | 52 mg/m <sup>3</sup>                                                                                                  |
| Hungary        | CK-érték                                                        | 104 mg/m <sup>3</sup>                                                                                                 |
| Ireland        | OEL (8 hours ref) (mg/m <sup>3</sup> )                          | 10 mg/m <sup>3</sup> (particulate)<br>52 mg/m <sup>3</sup> (vapour)                                                   |
| Ireland        | OEL (8 hours ref) (ppm)                                         | 20 ppm (vapour)                                                                                                       |
| Ireland        | OEL (15 min ref) (mg/m <sup>3</sup> )                           | 104 mg/m <sup>3</sup> (vapour)                                                                                        |
| Ireland        | OEL (15 min ref) (ppm)                                          | 40 ppm (particulate)                                                                                                  |
| Italy          | OEL TWA (mg/m <sup>3</sup> )                                    | 52 mg/m <sup>3</sup>                                                                                                  |
| Italy          | OEL TWA (ppm)                                                   | 20 ppm                                                                                                                |
| Italy          | OEL STEL (mg/m <sup>3</sup> )                                   | 104 mg/m <sup>3</sup>                                                                                                 |

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|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------|
| <br><small>LUBRICANTS · ADDITIVES · CAR CARE</small> | <h1 style="text-align: center;">SAFETY DATA SHEET</h1> | Page : 6 / 19           |
|                                                                                                                                       |                                                        | Revision nr : 1.1       |
|                                                                                                                                       | <h2 style="text-align: center;">Händedesinfektion</h2> | Issue date : 18/03/2020 |
|                                                                                                                                       |                                                        | Supersedes :            |

| Italy       | OEL STEL (ppm)                             | 40 ppm                                                         |
|-------------|--------------------------------------------|----------------------------------------------------------------|
| Latvia      | OEL TWA (mg/m <sup>3</sup> )               | 52 mg/m <sup>3</sup>                                           |
| Latvia      | OEL TWA (ppm)                              | 20 ppm                                                         |
| Lithuania   | IPRV (mg/m <sup>3</sup> )                  | 25 mg/m <sup>3</sup> (aerosol and vapor)                       |
| Lithuania   | IPRV (ppm)                                 | 10 ppm (aerosol and vapor)                                     |
| Lithuania   | TPRV (mg/m <sup>3</sup> )                  | 50 mg/m <sup>3</sup> (aerosol and vapor)                       |
| Lithuania   | TPRV (ppm)                                 | 20 ppm (aerosol and vapor)                                     |
| Luxembourg  | OEL TWA (mg/m <sup>3</sup> )               | 52 mg/m <sup>3</sup>                                           |
| Luxembourg  | OEL TWA (ppm)                              | 20 ppm                                                         |
| Luxembourg  | OEL STEL (mg/m <sup>3</sup> )              | 104 mg/m <sup>3</sup>                                          |
| Luxembourg  | OEL STEL (ppm)                             | 40 ppm                                                         |
| Malta       | OEL TWA (mg/m <sup>3</sup> )               | 52 mg/m <sup>3</sup>                                           |
| Malta       | OEL TWA (ppm)                              | 20 ppm                                                         |
| Malta       | OEL STEL (mg/m <sup>3</sup> )              | 104 mg/m <sup>3</sup>                                          |
| Malta       | OEL STEL (ppm)                             | 40 ppm                                                         |
| Netherlands | Grenswaarde TGG 8H (mg/m <sup>3</sup> )    | 52 mg/m <sup>3</sup> (fume)<br>10 mg/m <sup>3</sup> (droplets) |
| Netherlands | Grenswaarde TGG 15MIN (mg/m <sup>3</sup> ) | 104 mg/m <sup>3</sup>                                          |
| Poland      | NDS (mg/m <sup>3</sup> )                   | 15 mg/m <sup>3</sup>                                           |
| Poland      | NDSch (mg/m <sup>3</sup> )                 | 50 mg/m <sup>3</sup>                                           |
| Portugal    | OEL TWA (mg/m <sup>3</sup> )               | 52 mg/m <sup>3</sup> (indicative limit value)                  |
| Portugal    | OEL TWA (ppm)                              | 20 ppm (indicative limit value)                                |
| Portugal    | OEL STEL (mg/m <sup>3</sup> )              | 104 mg/m <sup>3</sup> (indicative limit value)                 |
| Portugal    | OEL STEL (ppm)                             | 40 ppm (indicative limit value)                                |
| Portugal    | OEL - Ceilings (mg/m <sup>3</sup> )        | 100 mg/m <sup>3</sup> (aerosol only)                           |
| Romania     | OEL TWA (mg/m <sup>3</sup> )               | 52 mg/m <sup>3</sup>                                           |
| Romania     | OEL TWA (ppm)                              | 20 ppm                                                         |
| Romania     | OEL STEL (mg/m <sup>3</sup> )              | 104 mg/m <sup>3</sup>                                          |
| Romania     | OEL STEL (ppm)                             | 40 ppm                                                         |
| Slovakia    | NPHV (priemerná) (mg/m <sup>3</sup> )      | 52 mg/m <sup>3</sup>                                           |
| Slovakia    | NPHV (priemerná) (ppm)                     | 20 ppm                                                         |
| Slovakia    | NPHV (Hraničná) (mg/m <sup>3</sup> )       | 104 mg/m <sup>3</sup>                                          |
| Slovenia    | OEL TWA (mg/m <sup>3</sup> )               | 52 mg/m <sup>3</sup>                                           |
| Slovenia    | OEL TWA (ppm)                              | 20 ppm                                                         |
| Slovenia    | OEL STEL (mg/m <sup>3</sup> )              | 104 mg/m <sup>3</sup>                                          |
| Slovenia    | OEL STEL (ppm)                             | 40 ppm                                                         |
| Spain       | VLA-ED (mg/m <sup>3</sup> )                | 52 mg/m <sup>3</sup> (indicative limit value)                  |
| Spain       | VLA-ED (ppm)                               | 20 ppm (indicative limit value)                                |
| Spain       | VLA-EC (mg/m <sup>3</sup> )                | 104 mg/m <sup>3</sup>                                          |
| Spain       | VLA-EC (ppm)                               | 40 ppm                                                         |
| Sweden      | nivågränsvärde (NVG) (mg/m <sup>3</sup> )  | 25 mg/m <sup>3</sup> (aerosol and vapor)                       |
| Sweden      | nivågränsvärde (NVG) (ppm)                 | 10 ppm (aerosol and vapor)                                     |
| Sweden      | kortidsvärde (KTV) (mg/m <sup>3</sup> )    | 104 mg/m <sup>3</sup> (aerosol and vapor)                      |
| Sweden      | kortidsvärde (KTV) (ppm)                   | 40 ppm (aerosol and vapor)                                     |

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|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------|
| <br>LUBRICANTS · ADDITIVES · CAR CARE | <h1 style="text-align: center;">SAFETY DATA SHEET</h1> | Page : 7 / 19           |
|                                                                                                                        |                                                        | Revision nr : 1.1       |
|                                                                                                                        | <h2 style="text-align: center;">Händedesinfektion</h2> | Issue date : 18/03/2020 |
|                                                                                                                        |                                                        | Supersedes :            |

|                              |                                                                          |                                                                                                                                                 |
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|                              |                                                                          |                                                                                                                                                 |
| United Kingdom               | WEL TWA (mg/m <sup>3</sup> )                                             | 10 mg/m <sup>3</sup> (particulates)<br>52 mg/m <sup>3</sup> (vapour)                                                                            |
| United Kingdom               | WEL TWA (ppm)                                                            | 20 ppm (vapour)                                                                                                                                 |
| United Kingdom               | WEL STEL (mg/m <sup>3</sup> )                                            | 104 mg/m <sup>3</sup> (vapour)<br>30 mg/m <sup>3</sup> (calculated-particulate)                                                                 |
| United Kingdom               | WEL STEL (ppm)                                                           | 40 ppm (vapour)                                                                                                                                 |
| Norway                       | Grenseverdier (AN) (mg/m <sup>3</sup> )                                  | 20 mg/m <sup>3</sup> (equal to the standard for nuisance dust-dust)<br>52 mg/m <sup>3</sup> (Total sum of limit values for both vapor and dust) |
| Norway                       | Grenseverdier (AN) (ppm)                                                 | 52 ppm (Total sum of limit values for both vapor and dust-total dust and vapor)                                                                 |
| Norway                       | Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )                       | 52 mg/m <sup>3</sup> (Norm is based on the sum calculation for the total gas and particulate form of the substance-dust)                        |
| Norway                       | Grenseverdier (Korttidsverdi) (ppm)                                      | 20 ppm (Norm is based on the sum calculation for the total gas and particulate form of the substance)                                           |
| Switzerland                  | VME (mg/m <sup>3</sup> )                                                 | 26 mg/m <sup>3</sup>                                                                                                                            |
| Switzerland                  | VME (ppm)                                                                | 10 ppm                                                                                                                                          |
| Switzerland                  | VLE (mg/m <sup>3</sup> )                                                 | 52 mg/m <sup>3</sup>                                                                                                                            |
| Switzerland                  | VLE (ppm)                                                                | 20 ppm                                                                                                                                          |
| Australia                    | TWA (mg/m <sup>3</sup> )                                                 | 10 mg/m <sup>3</sup> (particulate)<br>52 mg/m <sup>3</sup> (vapour)                                                                             |
| Australia                    | TWA (ppm)                                                                | 20 ppm (vapour)                                                                                                                                 |
| Australia                    | STEL (mg/m <sup>3</sup> )                                                | 104 mg/m <sup>3</sup> (vapour)                                                                                                                  |
| Australia                    | STEL (ppm)                                                               | 40 ppm (vapour)                                                                                                                                 |
| Canada (Quebec)              | PLAFOND (mg/m <sup>3</sup> )                                             | 127 mg/m <sup>3</sup> (mist and vapour)                                                                                                         |
| Canada (Quebec)              | PLAFOND (ppm)                                                            | 50 ppm (mist and vapour)                                                                                                                        |
| Japan                        | Exposure limits (ACGIH)                                                  | TWA (-), STEL (C 100 mg/m <sup>3</sup> (H))                                                                                                     |
| USA - ACGIH                  | ACGIH Ceiling (mg/m <sup>3</sup> )                                       | 100 mg/m <sup>3</sup> (aerosol only)                                                                                                            |
| <b>Propan-2-ol (67-63-0)</b> |                                                                          |                                                                                                                                                 |
| Austria                      | MAK (mg/m <sup>3</sup> )                                                 | 500 mg/m <sup>3</sup> (short time value for large casting)                                                                                      |
| Austria                      | MAK (ppm)                                                                | 200 ppm (short time value for large casting)                                                                                                    |
| Austria                      | MAK Short time value (mg/m <sup>3</sup> )                                | 2000 mg/m <sup>3</sup><br>2000 mg/m <sup>3</sup> (STEL for large casting valid till 12/31/2013)                                                 |
| Austria                      | MAK Short time value (ppm)                                               | 800 ppm<br>800 ppm (STEL for large casting valid till 12/31/2013)                                                                               |
| Belgium                      | Limit value (mg/m <sup>3</sup> )                                         | 500 mg/m <sup>3</sup>                                                                                                                           |
| Belgium                      | Limit value (ppm)                                                        | 200 ppm                                                                                                                                         |
| Belgium                      | Short time value (mg/m <sup>3</sup> )                                    | 1000 mg/m <sup>3</sup>                                                                                                                          |
| Belgium                      | Short time value                                                         | 400 ppm                                                                                                                                         |
| Bulgaria                     | OEL TWA (mg/m <sup>3</sup> )                                             | 980,0 mg/m <sup>3</sup>                                                                                                                         |
| Bulgaria                     | OEL STEL (mg/m <sup>3</sup> )                                            | 1225,0 mg/m <sup>3</sup>                                                                                                                        |
| Croatia                      | GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )               | 999 mg/m <sup>3</sup>                                                                                                                           |
| Croatia                      | GVI (granična vrijednost izloženosti) (ppm)                              | 400 ppm                                                                                                                                         |
| Croatia                      | KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> ) | 1250 mg/m <sup>3</sup>                                                                                                                          |

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|------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|
| <br>LUBRICANTS · ADDITIVES · CAR CARE | <b>SAFETY DATA SHEET</b> | Page : 8 / 19           |
|                                                                                                                        |                          | Revision nr : 1.1       |
|                                                                                                                        | <b>Händedesinfektion</b> | Issue date : 18/03/2020 |
|                                                                                                                        |                          | Supersedes :            |

| Propan-2-ol (67-63-0) |                                                                 |                                                                                                                                                            |
|-----------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Croatia               | KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)       | 500 ppm                                                                                                                                                    |
| Czech Republic        | Expoziční limity (PEL) (mg/m <sup>3</sup> )                     | 500 mg/m <sup>3</sup>                                                                                                                                      |
| Denmark               | Grænseværdie (langvarig) (mg/m <sup>3</sup> )                   | 490 mg/m <sup>3</sup>                                                                                                                                      |
| Denmark               | Grænseværdie (langvarig) (ppm)                                  | 200 ppm                                                                                                                                                    |
| Estonia               | OEL TWA (mg/m <sup>3</sup> )                                    | 350 mg/m <sup>3</sup>                                                                                                                                      |
| Estonia               | OEL TWA (ppm)                                                   | 150 ppm                                                                                                                                                    |
| Estonia               | OEL STEL (mg/m <sup>3</sup> )                                   | 600 mg/m <sup>3</sup>                                                                                                                                      |
| Estonia               | OEL STEL (ppm)                                                  | 250 ppm                                                                                                                                                    |
| Finland               | HTP-arvo (8h) (mg/m <sup>3</sup> )                              | 500 mg/m <sup>3</sup>                                                                                                                                      |
| Finland               | HTP-arvo (8h) (ppm)                                             | 200 ppm                                                                                                                                                    |
| Finland               | HTP-arvo (15 min)                                               | 620 mg/m <sup>3</sup>                                                                                                                                      |
| Finland               | HTP-arvo (15 min) (ppm)                                         | 250 ppm                                                                                                                                                    |
| France                | VLE (mg/m <sup>3</sup> )                                        | 980 mg/m <sup>3</sup>                                                                                                                                      |
| France                | VLE (ppm)                                                       | 400 ppm                                                                                                                                                    |
| Germany               | TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> ) | 500 mg/m <sup>3</sup> (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)                                     |
| Germany               | TRGS 900 Occupational exposure limit value (ppm)                | 200 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)                                                   |
| Germany               | TRGS 903 (BGW)                                                  | 25 mg/l Parameter: Acetone - Medium: whole blood - Sampling time: end of shift<br>25 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift |
| Greece                | OEL TWA (mg/m <sup>3</sup> )                                    | 980 mg/m <sup>3</sup>                                                                                                                                      |
| Greece                | OEL TWA (ppm)                                                   | 400 ppm                                                                                                                                                    |
| Greece                | OEL STEL (mg/m <sup>3</sup> )                                   | 1225 mg/m <sup>3</sup>                                                                                                                                     |
| Greece                | OEL STEL (ppm)                                                  | 500 ppm                                                                                                                                                    |
| Hungary               | AK-érték                                                        | 500 mg/m <sup>3</sup>                                                                                                                                      |
| Hungary               | CK-érték                                                        | 2000 mg/m <sup>3</sup>                                                                                                                                     |
| Ireland               | OEL (8 hours ref) (ppm)                                         | 200 ppm                                                                                                                                                    |
| Ireland               | OEL (15 min ref) (ppm)                                          | 400 ppm                                                                                                                                                    |
| Latvia                | OEL TWA (mg/m <sup>3</sup> )                                    | 350 mg/m <sup>3</sup>                                                                                                                                      |
| Lithuania             | IPRV (mg/m <sup>3</sup> )                                       | 350 mg/m <sup>3</sup>                                                                                                                                      |
| Lithuania             | IPRV (ppm)                                                      | 150 ppm                                                                                                                                                    |
| Lithuania             | TPRV (mg/m <sup>3</sup> )                                       | 600 mg/m <sup>3</sup>                                                                                                                                      |
| Lithuania             | TPRV (ppm)                                                      | 250 ppm                                                                                                                                                    |
| Poland                | NDS (mg/m <sup>3</sup> )                                        | 900 mg/m <sup>3</sup>                                                                                                                                      |
| Poland                | NDSch (mg/m <sup>3</sup> )                                      | 1200 mg/m <sup>3</sup>                                                                                                                                     |
| Portugal              | OEL TWA (ppm)                                                   | 200 ppm                                                                                                                                                    |
| Portugal              | OEL STEL (ppm)                                                  | 400 ppm                                                                                                                                                    |
| Romania               | OEL TWA (mg/m <sup>3</sup> )                                    | 200 mg/m <sup>3</sup>                                                                                                                                      |
| Romania               | OEL TWA (ppm)                                                   | 81 ppm                                                                                                                                                     |
| Romania               | OEL STEL (mg/m <sup>3</sup> )                                   | 500 mg/m <sup>3</sup>                                                                                                                                      |
| Romania               | OEL STEL (ppm)                                                  | 203 ppm                                                                                                                                                    |



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|------------------------------------------------------------------------------------------------------------------------|--------------------------|--|-------------------------|
| <br>LUBRICANTS · ADDITIVES · CAR CARE | <b>SAFETY DATA SHEET</b> |  | Page : 9 / 19           |
|                                                                                                                        |                          |  | Revision nr : 1.1       |
|                                                                                                                        | <b>Händedesinfektion</b> |  | Issue date : 18/03/2020 |
|                                                                                                                        |                          |  | Supersedes :            |

| <b>Propan-2-ol (67-63-0)</b> |                                                   |                                                                                                                                                 |
|------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Slovakia                     | NPHV (priemerná) (mg/m <sup>3</sup> )             | 500 mg/m <sup>3</sup>                                                                                                                           |
| Slovakia                     | NPHV (priemerná) (ppm)                            | 200 ppm                                                                                                                                         |
| Slovakia                     | NPHV (Hraničná) (mg/m <sup>3</sup> )              | 1000 mg/m <sup>3</sup>                                                                                                                          |
| Slovenia                     | OEL TWA (mg/m <sup>3</sup> )                      | 500 mg/m <sup>3</sup>                                                                                                                           |
| Slovenia                     | OEL TWA (ppm)                                     | 200 ppm                                                                                                                                         |
| Slovenia                     | OEL STEL (mg/m <sup>3</sup> )                     | 2000 mg/m <sup>3</sup>                                                                                                                          |
| Slovenia                     | OEL STEL (ppm)                                    | 800 ppm                                                                                                                                         |
| Spain                        | VLA-ED (mg/m <sup>3</sup> )                       | 500 mg/m <sup>3</sup> (the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound is prohibited) |
| Spain                        | VLA-ED (ppm)                                      | 200 ppm (the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound is prohibited)               |
| Spain                        | VLA-EC (mg/m <sup>3</sup> )                       | 1000 mg/m <sup>3</sup>                                                                                                                          |
| Spain                        | VLA-EC (ppm)                                      | 400 ppm                                                                                                                                         |
| Sweden                       | nivågränsvärde (NVG) (mg/m <sup>3</sup> )         | 350 mg/m <sup>3</sup>                                                                                                                           |
| Sweden                       | nivågränsvärde (NVG) (ppm)                        | 150 ppm                                                                                                                                         |
| Sweden                       | kortidsvärde (KTV) (mg/m <sup>3</sup> )           | 600 mg/m <sup>3</sup>                                                                                                                           |
| Sweden                       | kortidsvärde (KTV) (ppm)                          | 250 ppm                                                                                                                                         |
| United Kingdom               | WEL TWA (mg/m <sup>3</sup> )                      | 999 mg/m <sup>3</sup>                                                                                                                           |
| United Kingdom               | WEL TWA (ppm)                                     | 400 ppm                                                                                                                                         |
| United Kingdom               | WEL STEL (mg/m <sup>3</sup> )                     | 1250 mg/m <sup>3</sup>                                                                                                                          |
| United Kingdom               | WEL STEL (ppm)                                    | 500 ppm                                                                                                                                         |
| Norway                       | Grenseverdier (AN) (mg/m <sup>3</sup> )           | 245 mg/m <sup>3</sup>                                                                                                                           |
| Norway                       | Grenseverdier (AN) (ppm)                          | 100 ppm                                                                                                                                         |
| Norway                       | Grenseverdier (Kortidsverdi) (mg/m <sup>3</sup> ) | 245 mg/m <sup>3</sup>                                                                                                                           |
| Norway                       | Grenseverdier (Kortidsverdi) (ppm)                | 100 ppm                                                                                                                                         |
| Switzerland                  | VME (mg/m <sup>3</sup> )                          | 500 mg/m <sup>3</sup>                                                                                                                           |
| Switzerland                  | VME (ppm)                                         | 200 ppm                                                                                                                                         |
| Switzerland                  | VLE (mg/m <sup>3</sup> )                          | 1000 mg/m <sup>3</sup>                                                                                                                          |
| Switzerland                  | VLE (ppm)                                         | 400 ppm                                                                                                                                         |
| Australia                    | TWA (mg/m <sup>3</sup> )                          | 983 mg/m <sup>3</sup>                                                                                                                           |
| Australia                    | TWA (ppm)                                         | 400 ppm                                                                                                                                         |
| Australia                    | STEL (mg/m <sup>3</sup> )                         | 1230 mg/m <sup>3</sup>                                                                                                                          |
| Australia                    | STEL (ppm)                                        | 500 ppm                                                                                                                                         |
| Canada (Quebec)              | VECD (mg/m <sup>3</sup> )                         | 1230 mg/m <sup>3</sup>                                                                                                                          |
| Canada (Quebec)              | VECD (ppm)                                        | 500 ppm                                                                                                                                         |
| Canada (Quebec)              | VEMP (mg/m <sup>3</sup> )                         | 985 mg/m <sup>3</sup>                                                                                                                           |
| Canada (Quebec)              | VEMP (ppm)                                        | 400 ppm                                                                                                                                         |
| USA - ACGIH                  | ACGIH TWA (ppm)                                   | 200 ppm                                                                                                                                         |
| USA - ACGIH                  | ACGIH STEL (ppm)                                  | 400 ppm                                                                                                                                         |
| USA - IDLH                   | US IDLH (ppm)                                     | 2000 ppm (10% LEL)                                                                                                                              |
| USA - NIOSH                  | NIOSH REL (TWA) (mg/m <sup>3</sup> )              | 980 mg/m <sup>3</sup>                                                                                                                           |
| USA - NIOSH                  | NIOSH REL (TWA) (ppm)                             | 400 ppm                                                                                                                                         |
| USA - NIOSH                  | NIOSH REL (STEL) (mg/m <sup>3</sup> )             | 1225 mg/m <sup>3</sup>                                                                                                                          |

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|------------------------------------------------------------------------------------------------------------------------|--------------------------|--|-------------------------|
| <br>LUBRICANTS · ADDITIVES · CAR CARE | <b>SAFETY DATA SHEET</b> |  | Page : 10 / 19          |
|                                                                                                                        |                          |  | Revision nr : 1.1       |
|                                                                                                                        | <b>Händedesinfektion</b> |  | Issue date : 18/03/2020 |
|                                                                                                                        |                          |  | Supersedes :            |

| <b>Propan-2-ol (67-63-0)</b> |                                                                 |                                                                                                                        |
|------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| USA - NIOSH                  | NIOSH REL (STEL) (ppm)                                          | 500 ppm                                                                                                                |
| USA - OSHA                   | OSHA PEL (TWA) (mg/m <sup>3</sup> )                             | 980 mg/m <sup>3</sup>                                                                                                  |
| USA - OSHA                   | OSHA PEL (TWA) (ppm)                                            | 400 ppm                                                                                                                |
| <b>Ethanol (64-17-5)</b>     |                                                                 |                                                                                                                        |
| Austria                      | MAK (mg/m <sup>3</sup> )                                        | 1900 mg/m <sup>3</sup>                                                                                                 |
| Austria                      | MAK (ppm)                                                       | 1000 ppm                                                                                                               |
| Austria                      | MAK Short time value (mg/m <sup>3</sup> )                       | 3800 mg/m <sup>3</sup>                                                                                                 |
| Austria                      | MAK Short time value (ppm)                                      | 2000 ppm                                                                                                               |
| Belgium                      | Limit value (mg/m <sup>3</sup> )                                | 1907 mg/m <sup>3</sup>                                                                                                 |
| Belgium                      | Limit value (ppm)                                               | 1000 ppm                                                                                                               |
| Bulgaria                     | OEL TWA (mg/m <sup>3</sup> )                                    | 1000 mg/m <sup>3</sup>                                                                                                 |
| Croatia                      | GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )      | 1900 mg/m <sup>3</sup>                                                                                                 |
| Croatia                      | GVI (granična vrijednost izloženosti) (ppm)                     | 1000 ppm                                                                                                               |
| Czech Republic               | Expoziční limity (PEL) (mg/m <sup>3</sup> )                     | 1000 mg/m <sup>3</sup>                                                                                                 |
| Denmark                      | Grænseværdie (langvarig) (mg/m <sup>3</sup> )                   | 1900 mg/m <sup>3</sup>                                                                                                 |
| Denmark                      | Grænseværdie (langvarig) (ppm)                                  | 1000 ppm                                                                                                               |
| Estonia                      | OEL TWA (mg/m <sup>3</sup> )                                    | 1000 mg/m <sup>3</sup>                                                                                                 |
| Estonia                      | OEL TWA (ppm)                                                   | 500 ppm                                                                                                                |
| Estonia                      | OEL STEL (mg/m <sup>3</sup> )                                   | 1900 mg/m <sup>3</sup>                                                                                                 |
| Estonia                      | OEL STEL (ppm)                                                  | 1000 ppm                                                                                                               |
| Finland                      | HTP-arvo (8h) (mg/m <sup>3</sup> )                              | 1900 mg/m <sup>3</sup>                                                                                                 |
| Finland                      | HTP-arvo (8h) (ppm)                                             | 1000 ppm                                                                                                               |
| Finland                      | HTP-arvo (15 min)                                               | 2500 mg/m <sup>3</sup>                                                                                                 |
| Finland                      | HTP-arvo (15 min) (ppm)                                         | 1300 ppm                                                                                                               |
| France                       | VME (mg/m <sup>3</sup> )                                        | 1900 mg/m <sup>3</sup>                                                                                                 |
| France                       | VME (ppm)                                                       | 1000 ppm                                                                                                               |
| France                       | VLE (mg/m <sup>3</sup> )                                        | 9500 mg/m <sup>3</sup>                                                                                                 |
| France                       | VLE (ppm)                                                       | 5000 ppm                                                                                                               |
| Germany                      | TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> ) | 960 mg/m <sup>3</sup> (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Germany                      | TRGS 900 Occupational exposure limit value (ppm)                | 500 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)               |
| Greece                       | OEL TWA (mg/m <sup>3</sup> )                                    | 1900 mg/m <sup>3</sup>                                                                                                 |
| Greece                       | OEL TWA (ppm)                                                   | 1000 ppm                                                                                                               |
| Hungary                      | AK-érték                                                        | 1900 mg/m <sup>3</sup>                                                                                                 |
| Hungary                      | CK-érték                                                        | 7600 mg/m <sup>3</sup>                                                                                                 |
| Ireland                      | OEL (15 min ref) (ppm)                                          | 1000 ppm                                                                                                               |
| Latvia                       | OEL TWA (mg/m <sup>3</sup> )                                    | 1000 mg/m <sup>3</sup>                                                                                                 |
| Lithuania                    | IPRV (mg/m <sup>3</sup> )                                       | 1000 mg/m <sup>3</sup>                                                                                                 |
| Lithuania                    | IPRV (ppm)                                                      | 500 ppm                                                                                                                |
| Lithuania                    | TPRV (mg/m <sup>3</sup> )                                       | 1900 mg/m <sup>3</sup>                                                                                                 |
| Lithuania                    | TPRV (ppm)                                                      | 1000 ppm                                                                                                               |
| Netherlands                  | Grenswaarde TGG 8H (mg/m <sup>3</sup> )                         | 260 mg/m <sup>3</sup>                                                                                                  |

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|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------|
| <br>LUBRICANTS · ADDITIVES · CAR CARE | <h1 style="text-align: center;">SAFETY DATA SHEET</h1> | Page : 11 / 19          |
|                                                                                                                        |                                                        | Revision nr : 1.1       |
|                                                                                                                        | <h2 style="text-align: center;">Händedesinfektion</h2> | Issue date : 18/03/2020 |
|                                                                                                                        |                                                        | Supersedes :            |

| Ethanol (64-17-5) |                                                   |                                     |
|-------------------|---------------------------------------------------|-------------------------------------|
| Netherlands       | Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )        | 1900 mg/m <sup>3</sup>              |
| Poland            | NDS (mg/m <sup>3</sup> )                          | 1900 mg/m <sup>3</sup>              |
| Portugal          | OEL TWA (ppm)                                     | 1000 ppm                            |
| Romania           | OEL TWA (mg/m <sup>3</sup> )                      | 1900 mg/m <sup>3</sup>              |
| Romania           | OEL TWA (ppm)                                     | 1000 ppm                            |
| Romania           | OEL STEL (mg/m <sup>3</sup> )                     | 9500 mg/m <sup>3</sup>              |
| Romania           | OEL STEL (ppm)                                    | 5000 ppm                            |
| Slovakia          | NPHV (priemerná) (mg/m <sup>3</sup> )             | 960 mg/m <sup>3</sup>               |
| Slovakia          | NPHV (priemerná) (ppm)                            | 500 ppm                             |
| Slovakia          | NPHV (Hraničná) (mg/m <sup>3</sup> )              | 1920 mg/m <sup>3</sup>              |
| Slovenia          | OEL TWA (mg/m <sup>3</sup> )                      | 1900 mg/m <sup>3</sup>              |
| Slovenia          | OEL TWA (ppm)                                     | 1000 ppm                            |
| Slovenia          | OEL STEL (mg/m <sup>3</sup> )                     | 7600 mg/m <sup>3</sup>              |
| Slovenia          | OEL STEL (ppm)                                    | 4000 ppm                            |
| Spain             | VLA-EC (mg/m <sup>3</sup> )                       | 1910 mg/m <sup>3</sup>              |
| Spain             | VLA-EC (ppm)                                      | 1000 ppm                            |
| Sweden            | nivågränsvärde (NVG) (mg/m <sup>3</sup> )         | 1000 mg/m <sup>3</sup>              |
| Sweden            | nivågränsvärde (NVG) (ppm)                        | 500 ppm                             |
| Sweden            | kortidsvärde (KTV) (mg/m <sup>3</sup> )           | 1900 mg/m <sup>3</sup>              |
| Sweden            | kortidsvärde (KTV) (ppm)                          | 1000 ppm                            |
| United Kingdom    | WEL TWA (mg/m <sup>3</sup> )                      | 1920 mg/m <sup>3</sup>              |
| United Kingdom    | WEL TWA (ppm)                                     | 1000 ppm                            |
| United Kingdom    | WEL STEL (mg/m <sup>3</sup> )                     | 5760 mg/m <sup>3</sup> (calculated) |
| United Kingdom    | WEL STEL (ppm)                                    | 3000 ppm (calculated)               |
| Norway            | Grenseverdier (AN) (mg/m <sup>3</sup> )           | 950 mg/m <sup>3</sup>               |
| Norway            | Grenseverdier (AN) (ppm)                          | 500 ppm                             |
| Norway            | Grenseverdier (Kortidsverdi) (mg/m <sup>3</sup> ) | 950 mg/m <sup>3</sup>               |
| Norway            | Grenseverdier (Kortidsverdi) (ppm)                | 500 ppm                             |
| Switzerland       | VME (mg/m <sup>3</sup> )                          | 960 mg/m <sup>3</sup>               |
| Switzerland       | VME (ppm)                                         | 500 ppm                             |
| Switzerland       | VLE (mg/m <sup>3</sup> )                          | 1920 mg/m <sup>3</sup>              |
| Switzerland       | VLE (ppm)                                         | 1000 ppm                            |
| Australia         | TWA (mg/m <sup>3</sup> )                          | 1880 mg/m <sup>3</sup>              |
| Australia         | TWA (ppm)                                         | 1000 ppm                            |
| Canada (Quebec)   | VEMP (mg/m <sup>3</sup> )                         | 1880 mg/m <sup>3</sup>              |
| Canada (Quebec)   | VEMP (ppm)                                        | 1000 ppm                            |
| USA - ACGIH       | ACGIH STEL (ppm)                                  | 1000 ppm                            |
| USA - IDLH        | US IDLH (ppm)                                     | 3300 ppm (10% LEL)                  |
| USA - NIOSH       | NIOSH REL (TWA) (mg/m <sup>3</sup> )              | 1900 mg/m <sup>3</sup>              |
| USA - NIOSH       | NIOSH REL (TWA) (ppm)                             | 1000 ppm                            |
| USA - OSHA        | OSHA PEL (TWA) (mg/m <sup>3</sup> )               | 1900 mg/m <sup>3</sup>              |
| USA - OSHA        | OSHA PEL (TWA) (ppm)                              | 1000 ppm                            |

|                                                                                   |                          |                         |
|-----------------------------------------------------------------------------------|--------------------------|-------------------------|
|  | <b>SAFETY DATA SHEET</b> | Page : 12 / 19          |
|                                                                                   |                          | Revision nr : 1.1       |
|                                                                                   |                          | Issue date : 18/03/2020 |
|                                                                                   | <b>Händedesinfektion</b> | Supersedes :            |

## 8.2. Exposure controls

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering control measures    | : Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Take precautionary measures against static discharges. Use only non-sparking tools. Use only explosion-proof equipment. See also section 7. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Organisational measures to prevent /limit releases, dispersion and exposure.                                                                                                                                             |
| Personal protection equipment   | : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hand protection                 | : Wear chemically resistant gloves (tested to EN374) . NBR (Nitrile rubber). Breakthrough time (maximum wearing time) > 480m. Thickness of the glove material: 0,5mm. Butyl caoutchouc (butyl rubber). Breakthrough time (maximum wearing time) > 480m. Thickness of the glove material: 0,5mm. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves |
| Eye protection                  | : tightly fitting safety goggles (EN 166)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Body protection                 | : Overalls, apron and boots recommended                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Respiratory protection          | : In case of insufficient ventilation, wear suitable respiratory equipment. Wear a full face respirator conforming to EN136 with Type A filter or better. (EN 141). Wear a respirator conforming to EN140 with Type A filter or better. High concentrations can remove oxygen and cause dizziness or suffocation. Container device with compressed air (DIN EN 137)                                                                                                                                                                                                                                                                                                                         |
| Thermal hazard protection       | : Not required for normal conditions of use. Use dedicated equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Environmental exposure controls | : Avoid release to the environment. Comply with applicable Community environmental protection legislation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## SECTION 9: Physical and chemical properties

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

|                                            |                                       |
|--------------------------------------------|---------------------------------------|
| Physical state                             | : liquid                              |
| Appearance                                 | : liquid.                             |
| Colour                                     | : clear                               |
| Odour                                      | : Alcohol.                            |
| Odour threshold                            | : No data available                   |
| pH                                         | : No data available                   |
| Relative evaporation rate (butylacetate=1) | : No data available                   |
| Melting point/freezing point               | : No data available                   |
| Freezing point                             | : No data available                   |
| Initial boiling point and boiling range    | : ca 78 °C                            |
| Flash point                                | : 18 °C (DIN EN ISO13736) : ca 425 °C |
| Auto-ignition temperature                  | : No data available                   |
| Decomposition temperature                  | : Not applicable, liquid              |
| Flammability (solid, gas)                  | : ca 57,3 hPa (20°C)                  |
| Vapour pressure                            | : > 1                                 |
| Vapour density                             | : ca 0,87                             |
| Relative density                           | : No data available.                  |
| Solubility                                 | Water: No data available              |

|                                                                                   |                          |                         |
|-----------------------------------------------------------------------------------|--------------------------|-------------------------|
|  | <b>SAFETY DATA SHEET</b> | Page : 13 / 19          |
|                                                                                   |                          | Revision nr : 1.1       |
|                                                                                   | <b>Händedesinfektion</b> | Issue date : 18/03/2020 |
|                                                                                   |                          | Supersedes :            |

|                                       |                                                                                                                                                                                     |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Partition coefficient n-octanol/water | : No data available                                                                                                                                                                 |
| Kinematic viscosity                   | : No data available                                                                                                                                                                 |
| Dynamic viscosity                     | : No data available                                                                                                                                                                 |
| Explosive properties                  | : Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.                        |
| Oxidising properties                  | : Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties. |
| Explosive limits                      | : No data available                                                                                                                                                                 |

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour. Reference to other sections: 10.5.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Vapours can form explosive mixtures with air. Reference to other sections: 10.4.

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. See also section 7.

### 10.5. Incompatible materials

Incompatible with strong acids and oxidizing agents. See also section 7.

### 10.6. Hazardous decomposition products

Burning produces noxious and toxic fumes. Carbon oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

|                              |                                              |
|------------------------------|----------------------------------------------|
| LD50/oral/rat                | 4700 mg/kg                                   |
| LD50 oral                    | 4000 mg/kg                                   |
| LD50/dermal/rat              | 10600 mg/kg                                  |
| <b>Propan-2-ol (67-63-0)</b> |                                              |
| LD50/oral/rat                | 5338 mg/kg                                   |
| LD50/dermal/rabbit           | 12870 mg/kg                                  |
| LC50/inhalation/4h/rat       | 72600 mg/m <sup>3</sup> (Exposure time: 4 h) |
| <b>Ethanol (64-17-5)</b>     |                                              |
| LD50/oral/rat                | 7060 mg/kg                                   |
| LD50/dermal/rabbit           | > 15800 mg/kg                                |
| LC50/inhalation/4h/rat       | 124,7 mg/l                                   |
| LD50, oral, Rat              | 10470 mg/kg                                  |
| LC50, Inhalation, Rat        | 51 mg/l (4 hours)                            |

|                                   |                                                                                                              |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------|
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met)<br>pH: No data available |
| Serious eye damage/eye irritation | : Causes serious eye irritation.<br>pH: No data available                                                    |

|                                                                                   |                          |                         |
|-----------------------------------------------------------------------------------|--------------------------|-------------------------|
|  | <b>SAFETY DATA SHEET</b> | Page : 14 / 19          |
|                                                                                   |                          | Revision nr : 1.1       |
|                                                                                   | <b>Händedesinfektion</b> | Issue date : 18/03/2020 |
|                                                                                   |                          | Supersedes :            |

|                                   |                                                                                                                      |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)                                  |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)                                  |
| Carcinogenicity                   | : Not classified (Based on available data, the classification criteria are not met)                                  |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met)                                  |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met)                                  |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met)                                  |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met)                                  |
| Other information                 | : Symptoms related to the physical, chemical and toxicological characteristics.<br>Reference to other sections: 4.2. |

## SECTION 12: Ecological information

### 12.1. Toxicity

Environmental properties : not hazardous.

|                                |                                                                               |
|--------------------------------|-------------------------------------------------------------------------------|
| <b>LC50 fish 1</b>             |                                                                               |
| LC50 fish 1                    | 41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)               |
| EC50 Daphnia 1                 | 46300 mg/l (Exposure time: 48 h - Species: Daphnia magna)                     |
| LC50 fish 2                    | 14 - 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])    |
| <b>Propan-2-ol (67-63-0)</b>   |                                                                               |
| LC50 fish 1                    | 9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1                 | 13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)                     |
| EC50 other aquatic organisms 1 | > 1000 mg/l                                                                   |
| LC50 fish 2                    | 11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])      |
| ErC50 (algae)                  | > 1000 mg/l Scenedesmus subspicatus                                           |
| <b>Ethanol (64-17-5)</b>       |                                                                               |
| LC50 fish 1                    | 12,0 - 16,0 ml/l (Oncorhynchus mykiss [static])                               |
| EC50 Daphnia 1                 | 9268 - 14221 mg/l (Daphnia magna)                                             |
| LC50 fish 2                    | > 100 mg/l (Pimephales promelas [static])                                     |
| EC50 Daphnia 2                 | 2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])                |

### 12.2. Persistence and degradability

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
| Persistence and degradability | Readily biodegradable. |
| <b>Propan-2-ol (67-63-0)</b>  |                        |
| Persistence and degradability | Readily biodegradable. |
| <b>Ethanol (64-17-5)</b>      |                        |
| Persistence and degradability | Readily biodegradable. |

### 12.3. Bioaccumulative potential

|                                       |                         |
|---------------------------------------|-------------------------|
| Partition coefficient n-octanol/water | No data available       |
| Partition coefficient n-octanol/water | -1,93                   |
| Bioaccumulative potential             | Does not bioaccumulate. |
| <b>Propan-2-ol (67-63-0)</b>          |                         |
| Partition coefficient n-octanol/water | 0,05 (at 25 °C)         |
| Log Kow                               | 0,05                    |

|                                                                                   |                                                        |                         |
|-----------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------|
|  | <h1 style="text-align: center;">SAFETY DATA SHEET</h1> | Page : 15 / 19          |
|                                                                                   |                                                        | Revision nr : 1.1       |
|                                                                                   | <h2 style="text-align: center;">Händedesinfektion</h2> | Issue date : 18/03/2020 |
|                                                                                   |                                                        | Supersedes :            |

|                                       |       |
|---------------------------------------|-------|
| <b>Ethanol (64-17-5)</b>              |       |
| Partition coefficient n-octanol/water | -0,32 |

#### 12.4. Mobility in soil

|                |                    |
|----------------|--------------------|
| Ecology - soil | No data available. |
|----------------|--------------------|

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

| ingredient            |                                                                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Propan-2-ol (67-63-0) | The product does not meet the PBT and vPvB classification criteria                                                                                                              |
| Ethanol (64-17-5)     | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

#### 12.6. Other adverse effects

Additional information : Do not allow to enter into surface water or drains

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Handle with care. Reference to other sections: 7. Handling and storage. Dispose of contaminated materials in accordance with current regulations. Refer to manufacturer/supplier for information on recovery/recycling. Collect and dispose of waste product at an authorised disposal facility.

Additional information : Delivery to an approved waste disposal company.

Further ecological information : Do not allow to enter into surface water or drains.

List of proposed waste codes/waste designations in accordance with EWC (2001/573/EC, 75/442/EEC, 91/689/EEC) : Classified as hazardous waste according to European Union regulations  
The following Waste Codes are only suggestions:  
070601 - other organic solvents, washing liquids and mother liquors  
Waste codes should be assigned by the user based on the application for which the product was used

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR                                                                                | IMDG                                                                                | IATA                                                                                | ADN                                                                                  | RID                                                                                   |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>14.1. UN number</b>                                                             |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| 1987                                                                               | 1987                                                                                | 1987                                                                                | 1987                                                                                 | 1987                                                                                  |
| <b>14.2. UN proper shipping name</b>                                               |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| ALCOHOLS, N.O.S.<br>(Ethanol ; Propan-2-ol)                                        | ALCOHOLS, N.O.S.<br>(Ethanol ; Propan-2-ol)                                         | Alcohols, n.o.s.<br>(Ethanol ; Propan-2-ol)                                         | ALCOHOLS, N.O.S.<br>(Ethanol ; Propan-2-ol)                                          | ALCOHOLS, N.O.S.<br>(Ethanol ; Propan-2-ol)                                           |
| <b>Transport document description</b>                                              |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| UN 1987 ALCOHOLS, N.O.S. (Ethanol ; Propan-2-ol), 3, II, (D/E)                     | UN 1987 ALCOHOLS, N.O.S. (Ethanol ; Propan-2-ol), 3, II                             | UN 1987 Alcohols, n.o.s. (Ethanol ; Propan-2-ol), 3, II                             | UN 1987 ALCOHOLS, N.O.S. (Ethanol ; Propan-2-ol), 3, II                              | UN 1987 ALCOHOLS, N.O.S. (Ethanol ; Propan-2-ol), 3, II                               |
| <b>14.3. Transport hazard class(es)</b>                                            |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| 3                                                                                  | 3                                                                                   | 3                                                                                   | 3                                                                                    | 3                                                                                     |
|  |  |  |  |  |
| <b>14.4. Packing group</b>                                                         |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| II                                                                                 | II                                                                                  | II                                                                                  | II                                                                                   | II                                                                                    |

|                                                                                   |                                    |                         |
|-----------------------------------------------------------------------------------|------------------------------------|-------------------------|
|  | <b>SAFETY DATA SHEET</b>           | Page : 16 / 19          |
|                                                                                   |                                    | Revision nr : 1.1       |
|                                                                                   | <b>Flächendesinfekti<br/>on 5L</b> | Issue date : 18/03/2020 |
|                                                                                   |                                    | Supersedes :            |

| ADR                                    | IMDG                                                        | IATA                               | ADN                                | RID                                |
|----------------------------------------|-------------------------------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| <b>14.5. Environmental hazards</b>     |                                                             |                                    |                                    |                                    |
| Dangerous for the environment : No     | Dangerous for the environment : No<br>Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information available |                                                             |                                    |                                    |                                    |

#### **14.6. Special precautions for user**

##### **- Overland transport**

Classification code (ADR) : F1  
 Special Provisions : 274, 601, 640C  
 Limited quantities (ADR) : 1I  
 Excepted quantities (ADR) : E2  
 Packing instructions (ADR) : P001, IBC03, LP01, R001  
 Mixed packing provisions (ADR) : MP19  
 Portable tank and bulk container instructions (ADR) : T4  
 Portable tank and bulk container special provisions (ADR) : TP1, TP29  
 Tank code (ADR) : LGBF  
 Vehicle for tank carriage : FL  
 Transport category (ADR) : 2  
 Special provisions for carriage - Packages (ADR) : V12  
 Special provisions for carriage - Operation (ADR) : S2  
 Hazard identification number (Kemler No.) : 33  
 Orange plates :

tunnel restriction code : D/E  
 EAC code : •3YE

##### **- Transport by sea**

Special provisions (IMDG) : 223, 274  
 Limited quantities (IMDG) : 1 L  
 Limited quantities (IMDG) : 1 L  
 Excepted quantities (IMDG) : E2  
 Packing instructions (IMDG) : P001, LP01  
 IBC packing instructions (IMDG) : IBC03  
 Tank instructions (IMDG) : T4  
 Tank special provisions (IMDG) : TP1, TP29  
 EmS-No. (Fire) : F-E  
 EmS-No. (Spillage) : S-D  
 Stowage category (IMDG) : A

##### **- Air transport**

PCA Excepted quantities (IATA) : E1  
 PCA Limited quantities (IATA) : Y344



|                                                                                   |                          |                         |
|-----------------------------------------------------------------------------------|--------------------------|-------------------------|
|  | <b>SAFETY DATA SHEET</b> | Page : 17 / 19          |
|                                                                                   |                          | Revision nr : 1.1       |
|                                                                                   | <b>Händedesinfektion</b> | Issue date : 18/03/2020 |
|                                                                                   |                          | Supersedes :            |

PCA limited quantity max net quantity (IATA) : 5L  
 PCA packing instructions (IATA) : 355  
 PCA max net quantity (IATA) : 60L  
 CAO packing instructions (IATA) : 366  
 CAO max net quantity (IATA) : 220L  
 Special provisions (IATA) : A3, A180  
 ERG code (IATA) : 3L

#### - Inland waterway transport

Classification code (ADN) : F1  
 Special provisions (ADN) : 274, 601  
 Limited quantities (ADN) : 1 L  
 Excepted quantities (ADN) : E2  
 Carriage permitted (ADN) : T  
 Equipment required (ADN) : PP, EX, A  
 Ventilation (ADN) : VE01  
 Number of blue cones/lights (ADN) : 0

#### - Rail transport

Classification code (RID) : F1  
 Special provisions (RID) : 274, 601  
 Limited quantities (RID) : 1L  
 Excepted quantities (RID) : E5  
 Packing instructions (RID) : P001, IBC03, LP01, R001  
 Mixed packing provisions (RID) : MP19  
 Portable tank and bulk container instructions (RID) : T4  
 Portable tank and bulk container special provisions (RID) : TP1, TP29  
 Tank codes for RID tanks (RID) : LGBF  
 Transport category (RID) : 2  
 Special provisions for carriage – Packages (RID) : W12  
 Colis express (express parcels) (RID) : CE4  
 Hazard identification number (RID) : 30

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the 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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

|                                                                                                                                                                                                                                                                                                                        |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 | Ethylene glycol |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

|                                                                                   |                          |                         |
|-----------------------------------------------------------------------------------|--------------------------|-------------------------|
|  | <b>SAFETY DATA SHEET</b> | Page : 18 / 19          |
|                                                                                   |                          | Revision nr : 1.1       |
|                                                                                   |                          | Issue date : 18/03/2020 |
|                                                                                   | <b>Händedesinfektion</b> | Supersedes :            |

### 15.1.2. National regulations

Listed on IARC (International Agency for Research on Cancer)  
 Listed on the AICS (Australian Inventory of Chemical Substances)  
 Listed on the Canadian DSL (Domestic Substances List)  
 Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
 Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
 Listed on the Korean ECL (Existing Chemicals List)  
 Listed on NZIoC (New Zealand Inventory of Chemicals)  
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
 Listed on the United States TSCA (Toxic Substances Control Act) inventory  
 Listed on the Canadian IDL (Ingredient Disclosure List)

#### Germany

VwVwS Annex reference : Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 4)  
 Art. 69 EU 528/2012 : Ethanol  
 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)  
 TA Luft : Organic Substances

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : Ethanol is listed  
 SZW-lijst van mutagene stoffen : None of the components are listed  
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : Ethanol is listed  
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : Ethanol is listed  
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : Ethanol is listed

#### Denmark

Class for fire hazard : Class II-1  
 Store unit : 5 liter  
 Classification remarks : R10 <H226;H319>; Emergency management guidelines for the storage of flammable liquids must be followed

### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

|                                                                                                       |  |
|-------------------------------------------------------------------------------------------------------|--|
| <b>For the following substances of this mixture a chemical safety assessment has been carried out</b> |  |
| Propan-2-ol                                                                                           |  |
| Ethanol                                                                                               |  |

## SECTION 16: Other information

Abbreviations and acronyms:

|  |                                      |
|--|--------------------------------------|
|  | ABM = Algemene beoordelingsmethodiek |
|--|--------------------------------------|

|                                                                                   |                          |                         |
|-----------------------------------------------------------------------------------|--------------------------|-------------------------|
|  | <b>SAFETY DATA SHEET</b> | Page : 19 / 19          |
|                                                                                   |                          | Revision nr : 1.1       |
|                                                                                   | <b>Händedesinfektion</b> | Issue date : 18/03/2020 |
|                                                                                   |                          | Supersedes :            |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin<br>ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route<br>CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC<br>IATA = International Air Transport Association<br>IMDG = International Maritime Dangerous Goods Code<br>LEL = Lower Explosive Limit/Lower Explosion Limit<br>UEL = Upper Explosion Limit/Upper Explosive Limit<br>REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals |
|  | CSR = Chemical Safety Report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|  | DNEL = Derived No Effect Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|  | LD50 = Median lethal dose                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|  | NA = Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|  | N.O.S. = Not Otherwise Specified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|  | PNEC = Predicted No Effect Concentration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|  | STEL = Short term exposure limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|  | TLV = Threshold limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|  | TWA = time weighted average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Sources of key data used to compile the datasheet : <http://esis.jrc.ec.europa.eu> CSR ethanol.

Full text of H- and EUH-statements:

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| Acute Tox. 4 (Oral) | Acute toxicity Category 4                                              |
| Eye Irrit. 2        | Serious eye damage/eye irritation Category 2                           |
| Flam. Liq. 2        | Flammable liquids, Category 2                                          |
| Flam. Liq. 3        | Flammable liquids, Category 3                                          |
| STOT SE 3           | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H225                | Highly flammable liquid and vapour.                                    |
| H226                | Flammable liquid and vapour.                                           |
| H302                | Harmful if swallowed.                                                  |
| H319                | Causes serious eye irritation.                                         |
| H336                | May cause drowsiness or dizziness.                                     |

The contents and format of this SDS are in accordance with EEC Commission Directive 2015/830/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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