

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## ULTRASOL OXY®

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 2.0     | 21.10.2025     | 100000000048 | Date of first issue: 21.10.2025 |
|         |                |              | Country / Language : DE / EN    |

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

#### 1.1 Product identifier

Product name : ULTRASOL OXY®

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

Use of the Sub-  
stance/Mixture : Surface disinfection and cleaning of invasive medical devices  
with and without mechanical action  
According to Biocidal Products Regulation (BPR): For rapid  
disinfection and cleaning of medical equipment and surfaces  
of every type. Suitable for use in the food sector.

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

Company : Dr. Schumacher GmbH  
Am Roggenfeld 3  
34323 Malsfeld

Telephone : +49 566494960

Telefax : +49 56648444

E-mail address of person  
responsible for the SDS : sds.sap-ehs@schumacher-online.com

#### 1.4 Emergency telephone number

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2

H319: Causes serious eye irritation.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

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Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

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

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name     | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number      | Classification                                                                                                                                    | Concentration<br>(% w/w) |
|-------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| hydrogen peroxide | 7722-84-1<br>231-765-0<br>008-003-00-9<br>01-2119485845-22 | Ox. Liq. 1; H271<br>Acute Tox. 4; H302<br>Acute Tox. 4; H332<br>Skin Corr. 1A; H314<br>Eye Dam. 1; H318<br>STOT SE 3; H335<br>(Respiratory Tract) | >= 5 - < 8               |

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|                |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |
|----------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|                |                                                          | <div>Aquatic Chronic 3;<br/>H412</div> <div>specific concentration<br/>limit<br/>Ox. Liq. 1; H271<br/>&gt;= 70 %<br/>Ox. Liq. 2; H272<br/>50 - &lt; 70 %<br/>Skin Corr. 1A; H314<br/>&gt;= 70 %<br/>Skin Corr. 1B; H314<br/>50 - &lt; 70 %<br/>Skin Irrit. 2; H315<br/>35 - &lt; 50 %<br/>Eye Dam. 1; H318<br/>8 - &lt; 50 %<br/>Eye Irrit. 2; H319<br/>5 - &lt; 8 %<br/>STOT SE 3; H335<br/>&gt;= 35 %</div> <div>Acute toxicity esti-<br/>mate</div> <div>Acute oral toxicity:<br/>693,7 mg/kg</div> |                 |
| peracetic acid | 79-21-0<br>201-186-8<br>607-094-00-8<br>01-2119531330-56 | <div>Flam. Liq. 3; H226<br/>Org. Perox. D; H242<br/>Acute Tox. 4; H302<br/>Acute Tox. 4; H332<br/>Acute Tox. 4; H312<br/>Skin Corr. 1A; H314<br/>Eye Dam. 1; H318<br/>Aquatic Acute 1;<br/>H400<br/>Aquatic Chronic 1;<br/>H410<br/>STOT SE 3; H335</div> <div>specific concentration<br/>limit<br/>STOT SE 3; H335<br/>&gt;= 1 %</div> <div>Acute toxicity esti-</div>                                                                                                                                | >= 0,1 - < 0,25 |

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|  |  |                                     |  |
|--|--|-------------------------------------|--|
|  |  | mate                                |  |
|  |  | Acute oral toxicity:<br>1.740 mg/kg |  |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- |                        |   |                                                                                                                                    |
|------------------------|---|------------------------------------------------------------------------------------------------------------------------------------|
| General advice         | : | Do not leave the victim unattended.                                                                                                |
| If inhaled             | : | If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.                      |
| In case of eye contact | : | Remove contact lenses.<br>Protect unharmed eye.<br>If eye irritation persists, consult a specialist.                               |
| If swallowed           | : | DO NOT induce vomiting unless directed to do so by a physician or poison control center.<br>If symptoms persist, call a physician. |

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

- |       |   |                                |
|-------|---|--------------------------------|
| Risks | : | Causes serious eye irritation. |
|-------|---|--------------------------------|

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

- |           |   |                        |
|-----------|---|------------------------|
| Treatment | : | Treat symptomatically. |
|-----------|---|------------------------|

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- |                                |   |                                                                                                |
|--------------------------------|---|------------------------------------------------------------------------------------------------|
| Suitable extinguishing media   | : | Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical<br>Water spray jet |
| Unsuitable extinguishing media | : | High volume water jet                                                                          |

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

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Use a water spray to cool fully closed containers.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

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

Personal precautions : Ensure adequate ventilation.  
Remove all sources of ignition.  
Keep people away from and upwind of spill/leak.  
Use personal protective equipment.

### 6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.  
Prevent product from entering drains.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Sweep up and shovel into suitable containers for disposal.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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Advice on safe handling : For personal protection see section 8.  
Keep container closed when not in use.  
Use ventilation adequate to keep exposures below recommended exposure limits. See the safety datasheet.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Keep away from heat and sources of ignition.

Hygiene measures : General industrial hygiene practice.

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

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : Keep away from food and drink.  
Oxidizing agents

Storage class (TRGS 510) : 12

Recommended storage temperature : 5 - 25 °C

Further information on storage stability : No decomposition if stored and applied as directed.

Packaging material : Unsuitable material: Aluminium, Zinc

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components        | CAS-No.                                                                                                                                                                                                                                                           | Value type (Form of exposure) | Control parameters                | Basis       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------|-------------|
| hydrogen peroxide | 7722-84-1                                                                                                                                                                                                                                                         | MAK                           | 0,5 ppm<br>0,71 mg/m <sup>3</sup> | DE DFG MAK  |
|                   | Further information: Substances that cause cancer in humans or animals or that are considered to be carcinogenic for humans and for which a MAK value can be derived., Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed |                               |                                   |             |
|                   |                                                                                                                                                                                                                                                                   | AGW                           | 0,5 ppm<br>0,71 mg/m <sup>3</sup> | DE TRGS 900 |
|                   | Peak-limit: excursion factor (category): 1;(I)                                                                                                                                                                                                                    |                               |                                   |             |

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|                |                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                   |            |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------|------------|
|                | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child                                                                                                                                                                                                                                                             |     |                                   |            |
| peracetic acid | 79-21-0                                                                                                                                                                                                                                                                                                                                                                                              | MAK | 0,1 ppm<br>0,32 mg/m <sup>3</sup> | DE DFG MAK |
|                | Further information: Substances that cause concern that they could be carcinogenic for man but cannot be assessed conclusively because of lack of data, Substances that cause cancer in humans or animals or that are considered to be carcinogenic for humans and for which a MAK value can be derived., Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed |     |                                   |            |

### 8.2 Exposure controls

#### Personal protective equipment

|                          |                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye/face protection      | : Tightly fitting safety goggles<br>Equipment should conform to EN 166                                                                                                                                                                                                                                                            |
| Hand protection          |                                                                                                                                                                                                                                                                                                                                   |
| Material                 | : Chemical protective gloves made of nitrile, layer thickness at least 0.1 mm, breakthrough time (wearing time) approx. 240 minutes or gloves with the same protective effect.<br>This recommendation is based exclusively on the chemical compatibility and the test according to EN 374-1 Type A/B under laboratory conditions. |
| Remarks                  | : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).                                                                                                                                               |
| Skin and body protection | : Long sleeved clothing                                                                                                                                                                                                                                                                                                           |
| Respiratory protection   | : No personal respiratory protective equipment normally required.                                                                                                                                                                                                                                                                 |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                  |                  |
|--------------------------------------------------|------------------|
| Physical state                                   | : liquid         |
| Colour                                           | : colourless     |
| Odour                                            | : vinegar-like   |
| Melting point/range                              | : < 0 °C         |
| Boiling point/boiling range                      | : > 100 °C       |
| Upper explosion limit / Upper flammability limit | : not determined |

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Lower explosion limit / Lower flammability limit : not determined

Flash point : > 100 °C

Auto-ignition temperature : not determined

Decomposition temperature : No data available

pH : ca. 3

Viscosity

Viscosity, kinematic : not determined

Solubility(ies)

Water solubility : (20 °C)  
completely miscible

Partition coefficient: n-octanol/water : No data available

Vapour pressure : not determined

Density : 1,024 g/cm<sup>3</sup> (20 °C)

Relative vapour density : not determined

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.  
No hazards to be specially mentioned.

### 10.4 Conditions to avoid

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Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : Strong bases  
Copper  
Brass

### 10.6 Hazardous decomposition products

This product may release the following:  
Oxygen

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

#### Components:

##### hydrogen peroxide:

Acute oral toxicity : LD50 (Rat): 693,7 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 2.000 mg/kg

##### peracetic acid:

Acute oral toxicity : LD50 (Rat): 1.740 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 1.590 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

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### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

##### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Further information

##### Product:

Remarks : No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

hydrogen peroxide:

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Toxicity to fish : LC50 (Fish): 16,4 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : ErC50 (algae): 1,38 mg/l  
Exposure time: 72 h

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

#### Components:

##### **hydrogen peroxide:**

Partition coefficient: n-octanol/water : Remarks: No data available

##### **peracetic acid:**

Partition coefficient: n-octanol/water : Remarks: No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

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

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

|            |   |                                                                                                                                                                                                                    |
|------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product    | : | The product should not be allowed to enter drains, water courses or the soil.                                                                                                                                      |
| Waste Code | : | used product<br>070699<br>WASTES FROM ORGANIC CHEMICAL PROCESSES;<br>wastes from MFSU of greases, lubricants, soaps, detergents,<br>disinfectants and personal care products; wastes not other-<br>wise specified. |

### SECTION 14: Transport information

#### 14.1 UN number or ID number

|      |   |                                   |
|------|---|-----------------------------------|
| ADN  | : | Not regulated as a dangerous good |
| ADR  | : | Not regulated as a dangerous good |
| RID  | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA | : | Not regulated as a dangerous good |

#### 14.2 UN proper shipping name

|      |   |                                   |
|------|---|-----------------------------------|
| ADN  | : | Not regulated as a dangerous good |
| ADR  | : | Not regulated as a dangerous good |
| RID  | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA | : | Not regulated as a dangerous good |

#### 14.3 Transport hazard class(es)

|      |   |                                   |
|------|---|-----------------------------------|
| ADN  | : | Not regulated as a dangerous good |
| ADR  | : | Not regulated as a dangerous good |
| RID  | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA | : | Not regulated as a dangerous good |

#### 14.4 Packing group

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|                         |                                     |
|-------------------------|-------------------------------------|
| <b>ADN</b>              | : Not regulated as a dangerous good |
| <b>ADR</b>              | : Not regulated as a dangerous good |
| <b>RID</b>              | : Not regulated as a dangerous good |
| <b>IMDG</b>             | : Not regulated as a dangerous good |
| <b>IATA (Cargo)</b>     | : Not regulated as a dangerous good |
| <b>IATA (Passenger)</b> | : Not regulated as a dangerous good |

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

|                                                                                                                                            |                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : Conditions of restriction for the following entries should be considered:<br>Number on list 75, 3 |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|

If you intend to use this product as tattoo ink, please contact your vendor.

formaldehyde (Number on list 77, 72, 28)

|                                                                                                                                |                  |
|--------------------------------------------------------------------------------------------------------------------------------|------------------|
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).                                      | : Not applicable |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer                                                        | : Not applicable |
| Regulation (EU) 2019/1021 on persistent organic pollutants (recast)                                                            | : Not applicable |
| Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals | : Not applicable |
| REACH - List of substances subject to authorisation (Annex XIV)                                                                | : Not applicable |
| Regulation (EU) 2019/1148 on the marketing and use of explosives precursors                                                    |                  |

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This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. hydrogen peroxide (ANNEX I)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Water hazard class (Germany) : WGK 1 slightly hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : 5.2.1: Total dust:  
Not applicable  
5.2.2: Inorganic substances in powdered form:  
Not applicable  
5.2.4: Inorganic substances in gaseous form:  
Not applicable  
5.2.5: Organic Substances:  
Class 1: < 0,01 % 64-18-6  
Class 2: 0,12 % 64-19-7  
5.2.7.1.1: Carcinogenic substance:  
Not applicable  
5.2.7.1.1: Quartz fine dust PM4:  
Not applicable  
5.2.7.1.1: Formaldehyde:  
others: < 0,01 % 50-00-0  
5.2.7.1.1: fibres:  
Not applicable  
5.2.7.2: Poorly degradable, easily enrichable and highly toxic organic substances:  
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 6,99 %

### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

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## ULTRASOL OXY®

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 2.0     | 21.10.2025     | 100000000048 | Date of first issue: 21.10.2025 |
|         |                |              | Country / Language : DE / EN    |

### SECTION 16: Other information

#### Full text of H-Statements

|      |                                                         |
|------|---------------------------------------------------------|
| H226 | : Flammable liquid and vapour.                          |
| H242 | : Heating may cause a fire.                             |
| H271 | : May cause fire or explosion; strong oxidizer.         |
| H302 | : Harmful if swallowed.                                 |
| H312 | : Harmful in contact with skin.                         |
| H314 | : Causes severe skin burns and eye damage.              |
| H318 | : Causes serious eye damage.                            |
| H332 | : Harmful if inhaled.                                   |
| H335 | : May cause respiratory irritation.                     |
| H400 | : Very toxic to aquatic life.                           |
| H410 | : Very toxic to aquatic life with long lasting effects. |
| H412 | : Harmful to aquatic life with long lasting effects.    |

#### Full text of other abbreviations

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| Acute Tox.        | : Acute toxicity                                          |
| Aquatic Acute     | : Short-term (acute) aquatic hazard                       |
| Aquatic Chronic   | : Long-term (chronic) aquatic hazard                      |
| Eye Dam.          | : Serious eye damage                                      |
| Flam. Liq.        | : Flammable liquids                                       |
| Org. Perox.       | : Organic peroxides                                       |
| Ox. Liq.          | : Oxidizing liquids                                       |
| Skin Corr.        | : Skin corrosion                                          |
| STOT SE           | : Specific target organ toxicity - single exposure        |
| DE DFG MAK        | : Germany. MAK BAT Annex IIa                              |
| DE TRGS 900       | : Germany. TRGS 900 - Occupational exposure limit values. |
| DE DFG MAK / MAK  | : MAK value                                               |
| DE TRGS 900 / AGW | : Time Weighted Average                                   |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization;

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KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Eye Irrit. 2

H319

#### Classification procedure:

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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