1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name - Trade name: Hydrogen peroxide 35%
EC index no: 008-003-00-9
EC no: 231-765-0
CAS No.: 7722-84-1

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

1.2.1. Relevant identified uses
Main use category: Industrial use

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet

Univar Zwijndrecht N.V.
Noordweg 3
3336 LH Zwijndrecht - Nederland
T +31 (0)78 6250 000 - F +31 (0)78 6250 050
sds@univareurope.com - www.univareurope.com

1.4. Emergency telephone number

Country | Official advisory body | Address | Emergency number
--- | --- | --- | ---
NETHERLANDS | National Poisons Information Centre National Institute for Public Health and the Environment, NB this service is only available to health professionals | P.O. Box 1 3720 BABilthoven | +31 30 274 88 88

2. Hazards identification

2.1. Classification of the substance or mixture

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

| H315 | Skin Irrit. 2 |
| H318 | Eye Dam. 1 |
| H335 | STOT SE 3 |
| H302 | Acute Tox. 4 (Oral) |

Full text of H-phrases: see section 16.

2.1.2. Classification according to Directive 67/548/EEC or 1999/45/EC

R5; O; R8; C; R35; Xn; R20/22

Full text of R-phrases: see section 16.

2.1.3. Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Signal word (CLP): Danger

H-Phrases:
H302 - Harmful if swallowed
H315 - Causes skin irritation
H318 - Causes serious eye damage
H335 - May cause respiratory irritation

P-phrases:
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER/doctor/physician if you feel unwell
P330 - Rinse mouth.
2.2.2. **Labelling according to Directive 67/548/EEC or 1999/45/EC**

Symbol(s): ![Cross](image)

- **Xn - Harmful**

**Hazardous ingredients**: Hydrogen peroxide

**R Phrase(s)**:
- R22 - Harmful if swallowed.
- R37/38 - Irritating to respiratory system and skin.
- R41 - Risk of serious damage to eyes.

**S Phrase(s)**:
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S39 - Wear eye/face protection

2.3. **Other hazards**

No additional information available

3. **Composition/information on ingredients**

3.1. **Substances**

Not applicable

3.2. **Mixtures**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Directive 67/548/EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide</td>
<td>(CAS No.) 7722-84-1</td>
<td>~ 35</td>
<td>R5; R8; C; R35; Xn; R20/22</td>
</tr>
<tr>
<td></td>
<td>(EC no) 231-765-0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(EC index no) 008-003-00-9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide</td>
<td>(CAS No.) 7722-84-1</td>
<td>~ 35</td>
<td>Ox. Liq. 1, H271</td>
</tr>
<tr>
<td></td>
<td>(EC no) 231-765-0</td>
<td></td>
<td>Skin Corr. 1A, H314</td>
</tr>
<tr>
<td></td>
<td>(EC index no) 008-003-00-9</td>
<td></td>
<td>Acute Tox. 4 (Inhalation), H332</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
</tbody>
</table>

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

4. **First aid measures**

4.1. **Description of first aid measures**

- **After inhalation**: Allow the affected person to rest. Remove the victim into fresh air. Seek medical advice.
- **After skin contact**: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- **After eye contact**: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- **After swallowing**: DO NOT INDUCE VOMITING. Rinse mouth. Call a physician immediately.

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

- **Skin contact**: This material has been shown to be a severe skin irritant.
- **Eye contact**: Severe eye irritant.
- **Ingestion**: Irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

No additional information available

5. **Firefighting measures**

5.1. **Extinguishing media**

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

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

<table>
<thead>
<tr>
<th>Hazardous reactions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reacts violently with : Bases. Reducing agents (combustibles).</td>
<td></td>
</tr>
</tbody>
</table>

5.3. **Advice for firefighters**

No additional information available
6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Protective equipment: Equip cleanup crew with proper protection.

6.1.2. For emergency responders
No additional information available

6.2. Environmental precautions
Prevent entry to sewers, ground and public waters. Residue may be washed down with water.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: If a major spill occurs, all personnel should be immediately evacuated and the area ventilated.

6.4. Reference to other sections
No additional information available

7. Handling and storage

7.1. Precautions for safe handling
No additional information available

7.2. Conditions for safe storage, including any incompatibilities
Storage: Store in tightly closed, properly ventilated containers away from heat, sparks, open flame.

7.3. Specific end use(s)
No additional information available

8. Exposure controls/personal protection

8.1. Control parameters
No additional information available

8.2. Exposure controls
- Hand protection: Wear suitable gloves resistant to chemical penetration.
- Eye protection: Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.
- Skin protection: When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection must be worn.
- Respiratory protection: Approved dust or mist respirator should be used if airborne particles are generated when handling this material.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance: Clear liquid.
Physical state: Liquid
Colour: No data available.
Odour: Characteristic.
pH value: 3
Density: 1.113 g/cm3
Water solubility: Mixable in all proportions
Viscosity: 2 mPa.s

9.2. Other information
No additional information available

10. Stability and reactivity

10.1. Reactivity
Reacts violently with: Bases. Reducing agents (combustibles).

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
No additional information available

10.5. Incompatible materials

10.6. Hazardous decomposition products
No additional information available

11. Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>Causes skin irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>Acute toxicity</td>
<td>Harmful if swallowed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>ATE (oral)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide 35% (7722-84-1)</td>
<td>500,00000 mg/kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50 dermal rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide (7722-84-1)</td>
<td>4060 mg/kg</td>
</tr>
</tbody>
</table>

11.2. Acute toxicity:

<table>
<thead>
<tr>
<th>Substance</th>
<th>ATE (oral)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide 35% (7722-84-1)</td>
<td>500,00000 mg/kg</td>
</tr>
</tbody>
</table>

12. Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>Hydrogen peroxide (7722-84-1)</th>
<th>LC50-96 Hour - fish</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16,4 mg/l</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Hydrogen peroxide 35% (7722-84-1)</th>
<th>- on soil</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dike for recovery or absorb with appropriate material.</td>
</tr>
</tbody>
</table>

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
No additional information available

13. Disposal considerations

13.1. Waste treatment methods
Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.
Additional information : After last use, the packing should be totally empty and closed.

14. Transport information

14.1. UN number
UN-No. : 2014

14.2. UN proper shipping name
Proper Shipping Name : HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Transport document description : UN 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1 (8), II, (E)
14.3. Transport hazard class(es)

14.3.1. Overland transport
Class (ADR) : 5.1 - Oxidizing substances
Hazard identification number (Kemler No.) : 58
Classification code : OC1
Labelling ADR : 5.1 - Oxidizer
8 - Corrosive substances

Orange plates

Code tunnelrestriction (ADR) : E
Limited quantities (ADR) : LQ10
Excepted quantities (ADR) : E2

14.3.2. Transport by sea
No additional information available

14.3.3. Air transport
No additional information available

14.4. Packing group
Packing Group : II

14.5. Environmental hazards
Other information : No supplementary information available.

14.6. Special precautions for user
No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No additional information available

15. Regulatory information

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

15.1.1. EU-Regulations
No additional information available

15.1.2. National regulations
Water hazard class : 11 - Low toxicity to aquatic organisms
Remediation Efforts : B - Minimize discharge; apply best available techniques

15.2. Chemical safety assessment
No additional information available

16. Other information
Further information : The contents and format of this MSDS are in accordance with regulation (EC) no. 1907/2006 of the European Parliament and Council of 18 December 2006 concerning the registration, evaluation, authorisation and restriction of Chemicals (REACH). Appendix Of the raw materials in chapter 3 at moment of reporting of this material safety data sheet, chemical safety reports have not been registered in the scope of regulation (EC) no. 1907/2006.
Full text of R-, H- and EUH-phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Inhalation)</th>
<th>Acute toxicity (inhalation) Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (Oral) Category 4</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious Eye Damage/Irritation Category 1</td>
</tr>
<tr>
<td>Ox. Liq. 1</td>
<td>Oxidising liquid Category 1</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/Irritation Category 1A</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/Irritation Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H271</td>
<td>May cause fire or explosion; strong oxidizer</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>R20/22</td>
<td>Harmful by inhalation and if swallowed.</td>
</tr>
<tr>
<td>R35</td>
<td>Causes severe burns</td>
</tr>
<tr>
<td>R5</td>
<td>Heating may cause an explosion.</td>
</tr>
<tr>
<td>R8</td>
<td>Contact with combustible material may cause fire.</td>
</tr>
</tbody>
</table>

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