

Trade name: Hydrogenii peroxidum 3%

Substance number: 212450

Version: 9 / CH

Date revised: 02.09.2025

Replaces Version: 8 / CH

Print date: 02.09.25

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Hydrogenii peroxidum 3%

Item No. 21245000

**Substance / product identification**

UFI Y100-A76N-KY1F-4A29

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/preparation**

Manufacture of pharmaceutical products

**1.3. Details of the supplier of the safety data sheet****Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible  
for this SDS**1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

**SECTION 2: Hazards identification \*\*\*****2.1. Classification of the substance or mixture**

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

**2.2. Label elements****Labelling according to regulation (EC) No 1272/2008****Supplemental information**

EUH210 Safety data sheet available on request.

**2.3. Other hazards**

\*\*\*

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**SECTION 3: Composition/information on ingredients \*\*\*****Chemical characterization**

Alcoholic solution

**Hazardous ingredients \*\*\*****hydrogen peroxide solution**

CAS No. 7722-84-1

EINECS no. 231-765-0

Registration no. 01-2119485845-22-XXXX

Trade name: Hydrogenii peroxidum 3%

Substance number: 212450

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Concentration  $\geq 3$   $< 5$  %  
 Classification (Regulation (EC) No. 1272/2008)

|               |      |
|---------------|------|
| Ox. Liq. 1    | H271 |
| Acute Tox. 4  | H302 |
| Acute Tox. 4  | H332 |
| Skin Corr. 1A | H314 |

Concentration limits (Regulation (EC) No. 1272/2008)

|               |      |                  |
|---------------|------|------------------|
| Eye Dam. 1    | H318 | $\geq 8 < 50$ %  |
| Eye Irrit. 2  | H319 | $\geq 5 < 8$ %   |
| Ox. Liq. 1    | H271 | $\geq 70$ %      |
| Ox. Liq. 2    | H272 | $\geq 50 < 70$ % |
| Skin Corr. 1A | H314 | $\geq 70$ %      |
| Skin Corr. 1B | H314 | $\geq 50 < 70$ % |
| Skin Irrit. 2 | H315 | $\geq 35 < 50$ % |
| STOT SE 3     | H335 | $\geq 35$ %      |

|     |                       |     |       |
|-----|-----------------------|-----|-------|
| ATE | oral                  | 431 | mg/kg |
| ATE | inhalative, Dust/Mist | 1.5 | mg/l  |
| ATE | inhalative, Vapors    | 11  | mg/l  |

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

**Further ingredients****water**

CAS No. 7732-18-5

EINECS no. 231-791-2

Concentration  $\geq 50$  %

Advice: [4]

**phosphoric acid**

CAS No. 7664-38-2

EINECS no. 231-633-2

Registration no. 01-2119485924-24

Concentration  $< 1$  %

Advice: [4]

Classification (Regulation (EC) No. 1272/2008)

|               |      |
|---------------|------|
| Met. Corr. 1  | H290 |
| Acute Tox. 4  | H302 |
| Skin Corr. 1B | H314 |
| Eye Dam. 1    | H318 |

Concentration limits (Regulation (EC) No. 1272/2008)

|               |      |                  |
|---------------|------|------------------|
| Eye Dam. 1    | H318 | $\geq 25$ %      |
| Skin Corr. 1B | H314 | $\geq 25$ %      |
| Skin Irrit. 2 | H315 | $\geq 10 < 25$ % |
| Eye Irrit. 2  | H319 | $\geq 10 < 25$ % |

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

**Note**

[4] Voluntary information

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

If you feel unwell, seek medical advice (show the label where possible). Take off contaminated clothing and shoes immediately.

Trade name: Hydrogenii peroxidum 3%

Substance number: 212450

Version: 9 / CH

Date revised: 02.09.2025

Replaces Version: 8 / CH

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**After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment.

**After skin contact**

After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a physician.

**After ingestion**

Rinse mouth thoroughly with water. Consult a physician if necessary.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Extinguishing measures to suit surroundings

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

None known

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Do not inhale vapours. Avoid contact with skin, eyes and clothing.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

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

Take up with absorbent material (eg sand, kieselguhr, universal binder). For tall amounts: Take up mechanically and collect in suitable container for disposal. Clean up affected area.

**6.4. Reference to other sections**

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

No special requirements.

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

Storage class according to TRGS 510      12

Non-combustible liquids

**Further information on storage conditions**

Keep container tightly closed, cool and dry.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limit values**

hydrogen peroxide solution

Trade name: Hydrogenii peroxidum 3%

Substance number: 212450

Version: 9 / CH

Date revised: 02.09.2025

Replaces Version: 8 / CH

Print date: 02.09.25

|  |      |                   |   |        |
|--|------|-------------------|---|--------|
| List   | SUVA |                   |   |        |
| Type   | MAK  |                   |   |        |
| Value  | 1,4  | mg/m <sup>3</sup> | 1 | ppm(V) |
| Short term exposure limit                            | 2,8  | mg/m <sup>3</sup> | 2 | ppm(V) |
| Pregnancy group: S; Remarks: SSs; OAW Auge; DFG OSHA |      |                   |   |        |

**Derived No/Minimal Effect Levels (DNEL/DMEL)****hydrogen peroxide solution**

|                      |                                |  |  |                   |
|----------------------|--------------------------------|--|--|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |  |  |                   |
| Reference group      | Worker                         |  |  |                   |
| Duration of exposure | Acute                          |  |  |                   |
| Route of exposure    | inhalative                     |  |  |                   |
| Mode of action       | Local effects                  |  |  |                   |
| Concentration        | 3                              |  |  | mg/m <sup>3</sup> |

|                      |                                |  |  |                   |
|----------------------|--------------------------------|--|--|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |  |  |                   |
| Reference group      | Worker                         |  |  |                   |
| Duration of exposure | Long term                      |  |  |                   |
| Route of exposure    | inhalative                     |  |  |                   |
| Mode of action       | Local effects                  |  |  |                   |
| Concentration        | 1.4                            |  |  | mg/m <sup>3</sup> |

|                      |                                |  |  |                   |
|----------------------|--------------------------------|--|--|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |  |  |                   |
| Reference group      | Consumer                       |  |  |                   |
| Duration of exposure | Acute                          |  |  |                   |
| Route of exposure    | inhalative                     |  |  |                   |
| Mode of action       | Local effects                  |  |  |                   |
| Concentration        | 1.93                           |  |  | mg/m <sup>3</sup> |

|                      |                                |  |  |                   |
|----------------------|--------------------------------|--|--|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |  |  |                   |
| Reference group      | Consumer                       |  |  |                   |
| Duration of exposure | Long term                      |  |  |                   |
| Route of exposure    | inhalative                     |  |  |                   |
| Mode of action       | Local effects                  |  |  |                   |
| Concentration        | 0.21                           |  |  | mg/m <sup>3</sup> |

**Predicted No Effect Concentration (PNEC)****hydrogen peroxide solution**

|               |            |  |  |      |
|---------------|------------|--|--|------|
| Type of value | PNEC       |  |  |      |
| Type          | Freshwater |  |  |      |
| Concentration | 0.0126     |  |  | mg/l |

|               |           |  |  |      |
|---------------|-----------|--|--|------|
| Type of value | PNEC      |  |  |      |
| Type          | Saltwater |  |  |      |
| Concentration | 0.0126    |  |  | mg/l |

|               |              |  |  |      |
|---------------|--------------|--|--|------|
| Type of value | PNEC         |  |  |      |
| Conditions    | Intermittend |  |  |      |
| Concentration | 0.0138       |  |  | mg/l |

|               |                              |  |  |      |
|---------------|------------------------------|--|--|------|
| Type of value | PNEC                         |  |  |      |
| Type          | Sewage treatment plant (STP) |  |  |      |
| Concentration | 4.66                         |  |  | mg/l |

|               |                     |  |  |  |
|---------------|---------------------|--|--|--|
| Type of value | PNEC                |  |  |  |
| Type          | Freshwater sediment |  |  |  |

Trade name: Hydrogenii peroxidum 3%

Substance number: 212450

Version: 9 / CH

Date revised: 02.09.2025

Replaces Version: 8 / CH

Print date: 02.09.25

|               |                 |       |
|---------------|-----------------|-------|
| Concentration | 0.047           | mg/kg |
| Type of value | PNEC            |       |
| Type          | Marine sediment |       |
| Concentration | 0.047           | mg/kg |
| Type of value | PNEC            |       |
| Type          | Soil            |       |
| Concentration | 0.0023          | mg/kg |

**8.2. Exposure controls****General protective and hygiene measures**

General industrial hygiene practice. Avoid any contact with the body.

**Respiratory protection**

Provide adequate ventilation. Do not breathe vapours, dust or aerosol.

**Hand protection**

necessary

**Eye protection**

necessary

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

Liquid

**Colour**

colourless, clear

**Boiling point or initial boiling point and boiling range**

Value appr. 100 °C

Source Estimated value

**Flash point**

Value °C

Remarks Not applicable

**Vapour pressure**

Remarks Not applicable

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid**

Protect from sun. Protect from heat/overheating.

**10.5. Incompatible materials**

Metals, Strong oxidising agents

**10.6. Hazardous decomposition products**

Oxygen

Trade name: Hydrogenii peroxidum 3%

Substance number: 212450

Version: 9 / CH

Date revised: 02.09.2025

Replaces Version: 8 / CH

Print date: 02.09.25

## SECTION 11: Toxicological information

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

#### Acute oral toxicity

|         |   |        |       |
|---------|---|--------|-------|
| ATE     | >   | 10'000 | mg/kg |
| Method  | calculated value according to GHS (e.g see UN GHS)                |        |       |
| Remarks | Based on available data, the classification criteria are not met. |        |       |

#### Acute oral toxicity (Components)

##### hydrogen peroxide solution

|         |     |  |       |
|---------|-----|--|-------|
| Species | rat |  |       |
| LD50    | 431 |  | mg/kg |
| Method  | EPA |  |       |

#### Acute dermal toxicity

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

#### Acute dermal toxicity (Components)

##### hydrogen peroxide solution

|         |        |  |       |
|---------|--------|--|-------|
| Species | rabbit |  |       |
| LD50    | 9200   |  | mg/kg |

#### Acute inhalational toxicity

|                     |   |     |      |
|---------------------|---|-----|------|
| ATE                 | >   | 100 | mg/l |
| Administration/Form | Vapors  |     |      |
| Method              | calculated value according to GHS (e.g see UN GHS)                |     |      |
| ATE                 | >   | 20  | mg/l |
| Administration/Form | Dust/Mist   |     |      |
| Method              | calculated value according to GHS (e.g see UN GHS)                |     |      |
| Remarks             | Based on available data, the classification criteria are not met. |     |      |

#### Acute inhalative toxicity (Components)

##### hydrogen peroxide solution

|                      |           |   |      |
|----------------------|-----------|---|------|
| LC50                 | 1.5       |   | mg/l |
| Duration of exposure | 4         | h |      |
| Administration/Form  | Dust/Mist |   |      |

##### hydrogen peroxide solution

|                      |        |   |      |
|----------------------|--------|---|------|
| LC50                 | 11     |   | mg/l |
| Duration of exposure | 4      | h |      |
| Administration/Form  | Vapors |   |      |

#### Skin corrosion/irritation

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

#### Skin corrosion/irritation (Components)

##### hydrogen peroxide solution

|            |           |
|------------|-----------|
| Species    | rabbit    |
| evaluation | corrosive |

#### Serious eye damage/irritation

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

#### Serious eye damage/irritation (Components)

##### hydrogen peroxide solution

|            |   |
|------------|---|
| Species    | rabbit                                    |
| evaluation | irritant - risk of serious damage to eyes |
| Remarks    | Corrosive                                 |

Trade name: Hydrogenii peroxidum 3%

Substance number: 212450

Version: 9 / CH

Date revised: 02.09.2025

Replaces Version: 8 / CH

Print date: 02.09.25

**Sensitization**

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

**Sensitization (Components)****hydrogen peroxide solution**

Species guinea pig  
Remarks None

**Subacute, subchronic, chronic toxicity (Components)****hydrogen peroxide solution**

Route of exposure oral  
Species mouse  
NOEL 26 mg/kg  
Repeated exposure  
Duration of exposure 90 Days  
Method OECD 408

**Mutagenicity**

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

**Mutagenicity (Components)****hydrogen peroxide solution**

Species mammal, species unspecified  
evaluation Information on genotoxicity in vitro available.  
Method OECD 473

**hydrogen peroxide solution**

Method OECD 476

**hydrogen peroxide solution**

Species mouse  
evaluation No mutagenicity in the micronucleus test.  
Method OECD 474

**Reproductive toxicity**

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

**Carcinogenicity**

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

**Specific Target Organ Toxicity (STOT)****Single exposure**

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

**Repeated exposure**

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

**Specific Target Organ Toxicity (STOT) (Components)****hydrogen peroxide solution**

evaluation May cause respiratory irritation.

**Aspiration hazard**

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

**11.2. Information on other hazards****Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**SECTION 12: Ecological information**

Trade name: Hydrogenii peroxidum 3%

Substance number: 212450

Version: 9 / CH

Date revised: 02.09.2025

Replaces Version: 8 / CH

Print date: 02.09.25

## 12.1. Toxicity

### General information

There is no data available on the product apart from the information given in this subsection.

### Fish toxicity (Components)

#### hydrogen peroxide solution

|                      |   |   |      |
|----------------------|---|---|------|
| Species              | Fathead minnow ( <i>Pimephales promelas</i> ) |   |      |
| LC50                 | 16.4  |   | mg/l |
| Duration of exposure | 96  | h |      |

### Daphnia toxicity (Components)

#### hydrogen peroxide solution

|                      |               |   |      |
|----------------------|---------------|---|------|
| Species              | Daphnia magna |   |      |
| EC50                 | 2.4           |   | mg/l |
| Duration of exposure | 48            | h |      |

#### hydrogen peroxide solution

|                      |               |   |      |
|----------------------|---------------|---|------|
| Species              | Daphnia magna |   |      |
| NOEC                 | 0.63          |   | mg/l |
| Duration of exposure | 21            | d |      |

### Algae toxicity (Components)

#### hydrogen peroxide solution

|                      |                      |   |  |
|----------------------|----------------------|---|--|
| Species              | Skeletonema costatum |   |  |
| NOEC                 | 0.63                 |   |  |
| Duration of exposure | 72                   | h |  |

#### hydrogen peroxide solution

|                      |                      |   |      |
|----------------------|----------------------|---|------|
| Species              | Skeletonema costatum |   |      |
| ErC50                | 1.38                 |   | mg/l |
| Duration of exposure | 72                   | h |      |

### Bacteria toxicity (Components)

#### hydrogen peroxide solution

|                      |                  |   |      |
|----------------------|------------------|---|------|
| Species              | activated sludge |   |      |
| EC50                 | > 1000           |   | mg/l |
| Duration of exposure | 3                | h |      |
| Method               | OECD 209         |   |      |

#### hydrogen peroxide solution

|                      |                  |     |      |
|----------------------|------------------|-----|------|
| Species              | activated sludge |     |      |
| EC50                 | 466              |     | mg/l |
| Duration of exposure | 30               | min |      |
| Method               | OECD 209         |     |      |

## 12.2. Persistence and degradability

### General information

There is no data available on the product apart from the information given in this subsection.

### Biodegradability (Components)

#### hydrogen peroxide solution

|            |                       |   |
|------------|-----------------------|---|
| Value      | 100                   | % |
| evaluation | Readily biodegradable |   |

## 12.3. Bioaccumulative potential

### General information

There is no data available on the product apart from the information given in this subsection.



Trade name: Hydrogenii peroxidum 3%

Substance number: 212450

Version: 9 / CH

Date revised: 02.09.2025

Replaces Version: 8 / CH

Print date: 02.09.25

**12.4. Mobility in soil****General information**

There is no data available on the product apart from the information given in this subsection.

**Mobility in soil (Components)****hydrogen peroxide solution**

Will not adsorb on soil.

**12.5. Results of PBT and vPvB assessment****General information**

There is no data available on the product apart from the information given in this subsection.

**Results of PBT and vPvB assessment**

The product contains no PBT substances

The product contains no vPvB substances.

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects****General information**

There is no data available on the product apart from the information given in this subsection.

**General information / ecology**

Ecological injuries are not known or expected under normal use.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

**Disposal recommendations for packaging**

Dispose of as unused product.

**SECTION 14: Transport information \*\*\***

|                              | Land transport ADR/RID<br>***  | Marine transport<br>IMDG/GGVSee ***                                     | Air transport<br>ICAO/IATA ***  |
|------------------------------|--|---|---|
| 14.1. UN number or ID number | The product does not constitute a hazardous substance in land transport. | The product does not constitute a hazardous substance in sea transport. | The product does not constitute a hazardous substance in air transport. |

**SECTION 15: Regulatory information \*\*\*****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class      WGK 1  
(Germany)

Trade name: Hydrogenii peroxidum 3%

Substance number: 212450

Version: 9 / CH

Date revised: 02.09.2025

Replaces Version: 8 / CH

Print date: 02.09.25

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

**Other information \*\*\***

The product does not contain substances according to Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH) with a content of  $\geq 0.1\%$  w/w.

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Hazard statements listed in Chapter 2/3**

|      |   |
|------|---|
| H271 | May cause fire or explosion; strong oxidizer. |
| H302 | Harmful if swallowed.                         |
| H314 | Causes severe skin burns and eye damage.      |
| H332 | Harmful if inhaled.                           |

**CLP categories listed in Chapter 2/3**

|               |                              |
|---------------|------------------------------|
| Acute Tox. 4  | Acute toxicity, Category 4   |
| Ox. Liq. 1    | Oxidising liquid, Category 1 |
| Skin Corr. 1A | Skin corrosion, Category 1A  |

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.