

Trade name: Hydrogenii peroxidum 35% sol

Substance number: 212550

Version: 7 / CH

Date revised: 06.02.2024

Replaces Version: 6 / CH

Print date: 06.02.24

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

1.1. Product identifier

Hydrogenii peroxidum 35% sol

Item No. 21255000

Substance / product identification

REACH Registry No. 01-2119485845-22-xxxx

UFI DU8D-J0HG-J007-ESNJ

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

Use of the substance/preparation

Cleaning agent, Oxidizing agents, Paper industry

Uses advised against

PC8 Biocidal products (e.g. Disinfectants, pest control)

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
person responsible
for this SDS sdb@haenseler.ch

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

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

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

Acute Tox. 4 H302

Acute Tox. 4 H332

Skin Irrit. 2 H315

Eye Dam. 1 H318

STOT SE 3 H335

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

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Danger

Hazard statements

H302	Harmful if swallowed.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Precautionary statements ***

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove victim 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.
P310	Immediately call a POISON CENTER or doctor.
P501.3	Disposal in compliance with local and national regulations.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains *** hydrogen peroxide solution... %

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 *****Molecular weight**

Value	34.02	g/mol
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Hazardous ingredients *****hydrogen peroxide solution... %**

CAS No.	7722-84-1
EINECS no.	231-765-0
Registration no.	01-2119485845-22-XXXX
Concentration	>= 35 < 50 %
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	>= 8 < 50 %
	Eye Irrit. 2	H319	>= 5 < 8 %
	Ox. Liq. 1	H271	>= 70 %
	Ox. Liq. 2	H272	>= 50 < 70 %
	Skin Corr. 1A	H314	>= 70 %
	Skin Corr. 1B	H314	>= 50 < 70 %
	Skin Irrit. 2	H315	>= 35 < 50 %
	STOT SE 3	H335	>= 35 %

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

Additional remarks:

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CLP

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off contaminated clothing and shoes immediately. Adhere to personal protective measures when giving first aid

After inhalation

Remove the casualty into fresh air and keep him calm. Irregular breathing/no breathing: artificial respiration.

After skin contact

Remove contaminated, soaked clothing immediately and dispose of safely. 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.). Shield unaffected eye. Summon a doctor immediately.

After ingestion

Never give anything by mouth to an unconscious person. Let plenty of water be drunk in small gulps. Do not induce vomiting. Turn a vomiting person lying on his back onto his side. Summon a doctor immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas. Water spray jet

Non suitable extinguishing media

Full water jet, Carbon dioxide

5.2. Special hazards arising from the substance or mixture

The product is not combustible. In the event of fire the following can be released: Oxygen; The product supports fire. If a fire breaks out nearby, pressure build-up and danger of bursting are possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing. Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Remove persons to safety. Avoid contact with skin, eyes and clothing. Do not inhale vapours. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal". After cleaning, flush away traces with water.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Handle and open container with care. Avoid formation of aerosols. Observe the usual precautions for handling chemicals. Smoking, eating and drinking should be prohibited in application area.

Advice on protection against fire and explosion

Substance/product promotes fires.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in original packaging. Protect from exposure to light. Suitable materials: Use stainless steel containers. Suitable materials: PE/PTFE. Unsuitable packaging materials: aluminium, zinc, copper. Unsuitable material: iron.

Hints on storage assembly

Do not store together with: Alkalis, Do not store with combustible materials. Keep away from reducing agents. Do not store together with: Metals, organic materials

Storage classes

Storage class according to TRGS 510	5.1B	Oxidising hazardous substances
Storage category (Switzerland)	8	Caustic and corrosive substances

Further information on storage conditions

Protect from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection ***

8.1. Control parameters

Exposure limit values ***

hydrogen peroxide solution... %

List	SUVA			
Type	MAK			
Value	1,4	mg/m ³	1	ppm(V)
Short term exposure limit	2,8	mg/m ³	2	ppm(V)
Pregnancy group: S; Remarks: SSc; 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 ³

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 ³

Type of value	Derived No Effect Level (DNEL)			
Reference group	Consumer			

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Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1.93	mg/m ³
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 ³

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	
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

Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Avoid contact with skin and eyes. Hold eye wash fountain available. Do not eat, drink or smoke during work time. Do not inhale gases. Do not inhale vapours. Do not inhale aerosols.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. EN 141; Multi-purpose filter ABEK; Breathing apparatus in the event of aerosol or mist formation.

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

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Appropriate Material	Butyl rubber - Butyl
Material thickness	0.5 mm
Breakthrough time	>= 8 h
Hand protection must comply with EN 374.	
Appropriate Material	nitrile rubber - NBR
Material thickness	0.33 mm
Breakthrough time	>= 8 h
Hand protection must comply with EN 374.	

Eye protection

Tightly fitting safety glasses

Body protection

Acid-resistant protective clothing

Environmental exposure controls

Do not allow to enter drains or water courses.

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

Physical state	liquid
Colour	colourless
Odour	acid
Melting point	
Value	- 33 °C
Freezing point	
Value	< 0 °C
Boiling point or initial boiling point and boiling range	
Value	appr. 108 °C
Flammability	Not applicable
Flash point	
Value	°C
Remarks	Not applicable
Decomposition temperature	
Value	> 114 °C
Remarks	To avoid thermal decomposition, do not overheat.
pH value	
Value	3 to 4
Concentration/H ₂ O	100 %
Temperature	20 °C
Source	calculated value
Viscosity	
dynamic	
Value	1.8 mPa.s
Temperature	0.0 °C
Partition coefficient n-octanol/water (log value)	
log Pow	-1.57
Temperature	20 °C
Source	calculated value
Vapour pressure	

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Value	0.48		hPa
Temperature	30	°C	

Density and/or relative density

Value	1.132		g/cm ³
Temperature	20	°C	

9.2. Other information**Solubility in water**

Remarks Completely miscible

Explosive properties

evaluation non flammable

Oxidising properties

evaluation oxidizing

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

Product reacts with: copper (Cu), Aluminium, zinc (Zn)

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Protect from heat and direct sunlight.

10.4. Conditions to avoid

Keep away from sources of heat and ignition. Protect from direct sunlight.

10.5. Incompatible materialsReactions with alkalis. Reactions with combustible substances. Reactions with various metals.
Reactions with reducing agents. Organic materials**10.6. Hazardous decomposition products**

Hydrogen, Oxygen

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	1'080.20	mg/kg
	05	

Method calculated value (Regulation (EC) No. 1272/2008)

Acute oral toxicity (Components)**hydrogen peroxide solution... %**

Species	rat		
LD50	431	mg/kg	
Method	EPA		

Acute dermal toxicity (Components)**hydrogen peroxide solution... %**

Species	rabbit		
LD50	4060	mg/kg	

Acute inhalational toxicity

ATE	27.5689	mg/l
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Administration/Form	Vapors
Method	calculated value (Regulation (EC) No. 1272/2008)
ATE	3.7594 mg/l
Administration/Form	Dust/Mist
Method	calculated value (Regulation (EC) No. 1272/2008)

Skin corrosion/irritation

Remarks Irritating effects on the skin and mucous membrane.

Skin corrosion/irritation (Components)**hydrogen peroxide solution... %**

Species	rabbit
evaluation	corrosive

Serious eye damage/irritation

Remarks Risk of serious damage to eyes.

Serious eye damage/irritation (Components)**hydrogen peroxide solution... %**

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

Sensitization

Species	guinea pig
Remarks	No sensitisation effect known.

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

Species	guinea pig
Remarks	None

Subacute, subchronic, chronic toxicity

Remarks Chronic exposure causes damage of respiratory organs.

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

evaluation	Information on genotoxicity in vitro available.
evaluation	No experimental indications on genotoxicity in vivo found.

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
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hydrogen peroxide solution... %

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

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Reproductive toxicity

Remarks No indications of toxic effects were observed in reproduction studies in animals.

Carcinogenicity

Route of exposure oral
 Species mouse
 evaluation Definitely confirmed as causing cancer in the experiment on test animals.
 Route of exposure inhalative
 Species mouse
 evaluation No indications of carcinogenic effects are available from long-term trials.

Specific Target Organ Toxicity (STOT) (Components)

hydrogen peroxide solution... %
 evaluation May cause respiratory irritation.

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**12.1. Toxicity****Fish toxicity (Components)**

hydrogen peroxide solution... %
 Species Fathead minnow (*Pimephales promelas*)
 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

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hydrogen peroxide solution... %

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

12.2. Persistence and degradability**Physico-chemical eliminability**

Remarks The product can be degraded by abiotic, e.g. chemical or photolytic, processes.

Biodegradability (Components)**hydrogen peroxide solution... %**

Value	100	%
evaluation	Readily biodegradable	

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water (log value)**

log Pow	-1.57	
Temperature	20	°C
Source	calculated value	

12.4. Mobility in soil**Mobility in soil**

Will not adsorb on soil.

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

Will not adsorb on soil.

12.5. Results of PBT and vPvB assessment**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 / ecology**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Toxic for aquatic organisms. Product is slightly hazardous to water.

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

EWC waste code No not dispose with rubbish.
EWC waste code Should not be released into the sanitary sewer system.
Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

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SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	2014	2014	2014
14.2. UN proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION	HYDROGEN PEROXIDE, AQUEOUS SOLUTION	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
14.3. Transport hazard class(es)	5.1	5.1	5.1
Subsidiary risk	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I		
Transport category	2		
14.5. Environmental hazards		no	

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 (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

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 3

H271 May cause fire or explosion; strong oxidizer.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.

CLP categories listed in Chapter 3

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Acute Tox. 4

Acute toxicity, Category 4

Eye Dam. 1

Serious eye damage, Category 1

Ox. Liq. 1

Oxidising liquid, Category 1

Skin Corr. 1A

Skin corrosion, Category 1A

Skin Irrit. 2

Skin irritation, Category 2

STOT SE 3

Specific target organ toxicity - single exposure, Category 3

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.