

Trade name: Hydrogenii peroxidum 30%

Substance number: 212500

Version: 13 / CH

Date revised: 02.04.2024

Replaces Version: 12 / CH

Print date: 02.04.24

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

1.1. Product identifier

Hydrogenii peroxidum 30%

Item No. 21250000

Registration no.

Registration no. 01-2119485845-22-XXXX

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

Use of the substance/preparation

industry, Oxidizing agents

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

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

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

Acute Tox. 4 H302

Acute Tox. 4 H332

Eye Dam. 1 H318

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

Danger

Hazard statements

H302

Harmful if swallowed.

H332

Harmful if inhaled.

H318

Causes serious eye damage.

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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 *****Chemical characterization**

Alcoholic solution

Molecular weight

Value 34.02 g/mol

Hazardous ingredients *****hydrogen peroxide solution... %**

CAS No.	7722-84-1
EINECS no.	231-765-0
Registration no.	01-2119485845-22-XXXX
Concentration	>= 30 < 35 %
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:

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

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

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General information

Take off contaminated clothing and shoes immediately. Clean body thoroughly (bath, shower).

After inhalation

Remove the casualty into fresh air and keep him calm. Irregular breathing/no breathing: artificial respiration. 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.). Summon a doctor immediately.

After ingestion

Do not induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious). Summon a doctor immediately.

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

Water mist, Foam, Dry chemical extinguisher, Carbon dioxide, Extinguishing measures to suit surroundings

5.2. Special hazards arising from the substance or mixture

The product is not combustible. If a fire breaks out nearby, pressure build-up and danger of bursting are possible. In the event of fire the following can be released: Oxygen; Under certain fire conditions the smoke may contain other toxic compounds.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

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

Other information

Cool endangered containers with water spray jet.

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

Keep people away and stay on the upwind side. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Keep away unprotected persons.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Prevent spread over a wide area (e.g. by containment or oil barriers). Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

For tall amounts: Take up mechanically and collect in suitable container for disposal. Pump off large amounts. Pick up rest with absorbent material (e.g. sand). For small amounts: take up with appropriate instrument and dispose. Rinse away rest with plenty of water.

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Advice on safe handling

Observe the usual precautions for handling chemicals. Smoking, eating and drinking should be prohibited in application area. Wear protective equipment. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapour and spray mist. Keep away from heat and sources of ignition. Ensure adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Suitable materials: Use stainless steel containers. Use aluminium containers. Use containers made of Polyethylene. Polypropylene. Use PVC containers. Use glass containers. Use ceramic containers. Unsuitable material: iron. Do not use steel containers. Unsuitable packaging materials: Copper. Do not use zinc containers. Do not use lead containers.

Hints on storage assembly

Keep away from flammable substances. Keep away from reducing agents. organic materials, Metals, metal oxides, Bases, Acetone

Storage classes

Storage class according to TRGS 510	5.1B	Oxidising hazardous substances
Storage category (Switzerland)	5	Oxidizing substances, organic peroxides

Further information on storage conditions

Protect from heat. Protect from light. Protect from contamination. Storage in a containment room required. Keep containers tightly closed in a dry, cool and well-ventilated place.

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		
Duration of exposure	Acute		

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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

Hold eye wash fountain available. Hold emergency shower available. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands and face after work. Keep away from food-stuffs, beverages and feed-stocks. Wash hands and face before breaks and after work. Use barrier skin cream. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards.

Respiratory protection

Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, special gas filter, NO-P3; Short term: filter apparatus, special gas filter, CO-P3; At intensive and longer exposition use self-contained breathing apparatus.

Hand protection

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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.

Appropriate Material Butyl rubber - Butyl

Material thickness 0.7 mm

Breakthrough time > 480 min

Hand protection must comply with EN 374.

Appropriate Material Natural Latex

Material thickness 1 mm

Breakthrough time > 480 min

Hand protection must comply with EN 374.

Appropriate Material nitrile

Material thickness 0.4 mm

Breakthrough time > 480 min

Hand protection must comply with EN 374.

Eye protection

Safety goggles; Safety glasses with side protection shield; Face shield; Eye protection must comply with EN 166.

Body protection

Impermeable protective clothing; protective overalls, PVC; Boots; Not suitable: leather protective clothing; Cotton or cotton/synthetic overalls or coveralls are normally suitable.

SECTION 9: Physical and chemical properties ***

9.1. Information on basic physical and chemical properties

Physical state liquid
Colour colourless, clear

Melting point

Value -25.7 °C

Boiling point or initial boiling point and boiling range

Value < 108 °C

Flash point

Value °C
Remarks Not applicable

pH value

Value <= 3.5
Temperature 20 °C

Viscosity

dynamic

Value 1.249 mPa.s
Temperature 20 °C
Remarks 100%

Partition coefficient n-octanol/water (log value)

log Pow -1.57
Temperature 20 °C
Method calculated
Remarks 100%

Vapour pressure

Value < 8 hPa
Temperature 20 °C

Density and/or relative density

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Value	1.111		g/cm ³
Temperature	20	°C	
Value	1.1081		
Temperature	25	°C	
Remarks	Relative Density according specification		

9.2. Other information**Solubility in water**

Remarks Completely miscible

Other information

The product is not dangerous for explosions.

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

None known

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Stable under recommended storage and handling conditions (see section 7).

10.4. Conditions to avoid

Protect from heat and direct sunlight. Possible incompatibility with materials listed under section 10.5.

10.5. Incompatible materials

Reactions with organic substances. Metals, Bases, Reducing agents, Acetone, dust, Do not store with combustible materials. Salts of metals (iron), HCl

10.6. Hazardous decomposition products

No hazardous decomposition products known when handled according to prescribed instructions.

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

ATE	1'390.32	mg/kg
	26	
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	35.4839	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	4.8387	mg/l

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Administration/Form	Dust/Mist
Method	calculated value (Regulation (EC) No. 1272/2008)

Skin corrosion/irritation

evaluation	non-irritant
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Skin corrosion/irritation (Components)**hydrogen peroxide solution... %**

Species	rabbit
evaluation	corrosive

Serious eye damage/irritation

Species	rabbit
Remarks	Corrosive
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	None
Source	Magnusson/Kligman

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 (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

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

evaluation	May cause respiratory irritation.
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11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

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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

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

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

Species	Daphnia magna		
EC50	2.4		mg/l
Duration of exposure	48	h	
Species	Daphnia magna		
NOEC	0.63		mg/l
Duration of exposure	21	d	

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

Species	Skeletonema costatum		
NOEC	0.63		mg/l
Duration of exposure	72	h	

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... %

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

12.2. Persistence and degradability**Biodegradability**

Duration of test evaluation	100	d	
	readily	degradable	

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

Value evaluation	100	%	
	Readily	biodegradable	

Ready degradability

Remarks	The product can be degraded by abiotic, e.g. chemical or photolytic, processes.
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12.3. Bioaccumulative potential**Partition coefficient n-octanol/water (log value)**

log Pow	-1.57	
Temperature	20	°C
Method	calculated	
Remarks	100%	

Bioconcentration factor (BCF)

Remarks	Not applicable
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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**General information**

Not applicable

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.

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

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Dispose of as unused product.

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		

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 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.
H318 Causes serious eye damage.
H332 Harmful if inhaled.

CLP categories listed in Chapter 3

Acute Tox. 4 Acute toxicity, Category 4
Eye Dam. 1 Serious eye damage, Category 1
Ox. Liq. 1 Oxidising liquid, Category 1

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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.