

Trade name: Hydrogenii peroxidum 35% sol

Substance number: 212550

Version: 6 / CH

Date revised: 24.04.2019

Replaces Version: 5 / CH

Print date: 24.04.19

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

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

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

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**

Danger

Hazard statements ***

H302

Harmful if swallowed.

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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.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 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

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

CLP Regulation (EC) No 1272/2008, Annex VI, Note B
 DSD Directive 67/548/EEC, Annex I, Note B

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

Take off contaminated clothing and shoes immediately.

After inhalation

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

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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.

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.

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**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

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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 0,71 mg/m³ 0,5 ppm(V)Short term exposure limit 0,71 mg/m³ 0,5 ppm(V)

Pregnancy group: S; Status: 2017; Remarks: SSc; Auge & Haut & OAW, Asthma; DFG, OSHA

Derived No/Minimal Effect Levels (DNEL/DMEL)

Hydrogen peroxide solution

Predicted No Effect Concentration (PNEC)

Hydrogen peroxide solution

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

Breathing apparatus in the event of aerosol or mist formation. combination filter NO-P3

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.

Appropriate Material Butyl rubber - Butyl

Material thickness 0.5 mm

Breakthrough time >= 8 h

Eye protection

Safety glasses with side protection shield

Body protection

Protective clothing

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

Form liquid

pH value

Value < 3.5

Temperature 20 °C

Melting point

Value - 33 °C

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Initial boiling point and boiling range

Value appr. 108 °C

Flash pointValue °C
Remarks Not applicable**Vapour pressure**Value 0.48 hPa
Temperature 30 °C**Density**Value 1.133 g/cm³
Temperature 20 °C**Solubility in water**

Remarks Completely miscible

Partition coefficient: n-octanol/waterlog Pow -1.57
Temperature 20 °C**Decomposition temperature**Value > 114 °C
Remarks To avoid thermal decomposition, do not overheat.**Viscosity****dynamic**Value 1.8 mPa.s
Temperature 0.0 °C**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 toxicological effects**

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Acute oral toxicity

ATE	1'351.35	mg/kg
	14	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute dermal toxicity (Components)**Hydrogen peroxide solution**

Species	rabbit	
LD50	4060	mg/kg

Acute inhalational toxicity

ATE	29.7297	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	4.0541	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.
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Serious eye damage/irritation

Remarks	Risk of serious damage to eyes.
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Sensitization

Species	guinea pig
Remarks	No sensitisation effect known.

Subacute, subchronic, chronic toxicity

Remarks	Chronic exposure causes damage of respiratory organs.
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Mutagenicity

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

Reproductive toxicity

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

SECTION 12: Ecological information *****12.1. Toxicity****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
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EC50	2.4	mg/l
Duration of exposure	48	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
Duration of exposure	72 h

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

Remarks	The product can be degraded by abiotic, e.g. chemical or photolytic, processes.
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Biodegradability (Components)**Hydrogen peroxide solution**

Value	100	%
evaluation	Readily biodegradable	

12.3. Bioaccumulative potential**Partition coefficient: n-octanol/water**

log Pow	-1.57
Temperature	20 °C

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

Will not adsorb on soil.

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential (Components)****Hydrogen peroxide solution**

Does not bioaccumulate.

Hydrogen peroxide solution

The Substance doesn't meets PBT/vPvB-criteria

12.6. 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.
H332 Harmful if inhaled.

CLP categories listed in Chapter 3

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

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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.