



Trade name: Wasserstoffperoxid 30%/Sigma-Aldrich Gmb

Substance number: 712500

Version: 2 / CH

Date revised: 22.06.12

Replaces Version: 1 / CH

Date of printing: 22.06.12

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

### 1.1. Product identifier

Wasserstoffperoxid 30%/Sigma-Aldrich Gmb  
Item-No. 71250004

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

#### Use of the substance/preparation

Bleaching agent, Oxidizing agents, oxygen generator, industry of perfume, Cosmetics, medical applications

### 1.3. Details of the supplier of the safety data sheet

#### Address

Hänseler AG  
Industriestrasse 35  
9101 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

## 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
Eye Dam. 1	H318
Eye Irrit. 2	H319

#### Classification in accordance with EC directives

Classification Xn, R22  
Xi, R41-R36

### 2.2. Label elements

#### Labelling according to regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal Word

Danger

#### Hazard statements

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

#### Precautionary statements



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P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 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/physician.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P501.3 Disposal in compliance with local and national regulations.

**Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC**

The product is classified and labelled in accordance with EC directives/the relevant national laws.

**Hazard symbols**

Harmful

**R phrases**

22 Harmful if swallowed.  
 36 Irritating to eyes.  
 41 Risk of serious damage to eyes.

**S phrases**

1/2 Keep locked up and out of the reach of children.  
 17 Keep away from combustible material.  
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 28.1 After contact with skin, wash immediately with plenty of water.  
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Hazardous component(s) to be indicated on label**

contains Hydrogen peroxide solution

**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				
Concentration	25	<	50	%	
Classification	Xn, R20/22 O, R8 C, R35 R5				

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

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

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

Ox. Liq. 2	H272	<= 50	< 70
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Skin Irrit. 2	H315	<= 35 < 50
Eye Dam. 1	H318	<= 8 < 50
Skin Corr. 1B	H314	<= 50 < 70
Eye Irrit. 2	H319	<= 5 < 8
Skin Corr. 1A	H314	>= 70
STOT SE 3	H335	>= 35
Ox. Liq. 1	H271	>= 70

## **4. First aid measures**

### **4.1. Description of first aid measures**

#### **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**

In case of contact with skin wash off 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.

## **5. Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Water spray jet

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

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 full protective suit.

#### **Other information**

Cool endangered containers with water spray jet.

## **6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Keep people away and stay on the upwind side. Keep away from sources of ignition - No smoking. Avoid contact with eyes and skin. Do not inhale vapours.

### **6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers).

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

Take up with absorbent material (eg sand, kieselguhr). Send in suitable containers for recovery or



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disposal. Dilute with plenty of water.

## **7. Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary).

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Requirements for storage rooms and vessels**

Use stainless steel containers. Use aluminium containers. Use containers made of Polyethylene.

#### **Hints on storage assembly**

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

#### **Further information on storage conditions**

Protect from heat. Protect from light. Protect from contamination. Storage in a containment room required.

## **8. Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Exposure limit values**

##### **Hydrogen peroxide solution**

List	SUVA			
Type	MAK			
Value	0,71	mg/m <sup>3</sup>	0,5	ppm(V)
Short term exposure limit	0,71	mg/m <sup>3</sup>	0,5	ppm(V)
Maximum limit value: 15 min; Pregnancy group: C; Status: 2005;				

### **8.2. Exposure controls**

#### **General protective and hygiene measures**

Hold eye wash fountain available. Hold emergency shower available.

#### **Respiratory protection**

Provide adequate ventilation. If ventilation insufficient, use a respiratory protection apparatus. Breathing apparatus in the event of aerosol or mist formation.

#### **Hand protection**

Gloves  
 Appropriate Material neoprene  
 Not suitable: leather gloves

#### **Eye protection**

Safety glasses

#### **Body protection**

Impermeable protective clothing; Boots; Not suitable: leather protective clothing; Not suitable: leather boots

## **9. Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

<b>Form</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	pungent



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**pH**

Value	<	3.5	
Temperature		20	°C

**Melting point**

Value		-26	°C
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**Boiling point**

Value		106	°C
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**Flash point**

Value		°C	
Remarks		Not applicable	

**Vapour pressure**

Value		33	hPa
Temperature		30	°C

**Density**

Value		1.111	g/cm <sup>3</sup>
Temperature		20	°C

**Solubility in water**

Value		70	g/l
Remarks		Immiscible resp. little miscible.	

**Solubility in other solvents**

organic solvents			
Value		0.0	%

**Octanol/water partition coefficient (log Pow)**

pOW		to	-1.57
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**Viscosity**

Value		1.11	mPa.s
Temperature		20	°C

**10. Stability and reactivity****10.4. Conditions to avoid**

Protect from heat and direct sunlight. Strong UV radiation. Protect from contamination.

**10.5. Incompatible materials**

Reactions with organic substances. Metals, Bases, Reducing agents, Acetone, dust, Do not store with combustible materials.

**10.6. Hazardous decomposition products**

Exothermic decomposition

**11. Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

Species		rat	
LD50		2000	mg/kg

**Acute dermal toxicity**

Species		rabbit	
LD50		> 4060	mg/kg

**Acute inhalational toxicity**



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Species	rat		
LC50	>	227	ppm(V)

**Skin corrosion/irritation**

Remarks	Irritating effects on the skin and mucous membrane.
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**Serious eye damage/irritation**

Remarks	Danger acute eye damage.
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**Sensitization**

Remarks	No sensitisation effect known.
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**12. Ecological information****12.1. Toxicity****Fish toxicity**

Species	golden orfe (Leuciscus idus)		
	30	to	35
Duration of exposure	48	h	mg/l
Remarks	Harmful to fishes.		

**Daphnia toxicity**

Species	Daphnia magna		
	>	7.7	mg/l
Remarks	toxic for daphnia		

**Algae toxicity**

Species	Scenedesmus quadricauda		
	7.3		mg/l

**Bacteria toxicity**

Species	Pseudomonas putida		
	>	1	mg/l

**12.2. Persistence and degradability****Biodegradability**

Remarks	The product is biodegradable.
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**12.3. Bioaccumulative potential****Octanol/water partition coefficient (log Pow)**

pOW		to	-1.57
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**13. Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.
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**Disposal recommendations for packaging**

Dispose of as unused product.
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**14. Transport information****Land transport ADR/RID****14.1. UN number**

UN 2014
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**14.2. UN proper shipping name**

HYDROGEN PEROXIDE, AQUEOUS SOLUTION
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**14.3. Transport hazard class(es)**

Class	5.1	
Label	5.1	8

**14.4. Packing group**

Packing group	II
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**Marine transport IMDG/GGVSee****14.1. UN number**

UN 2014

**14.2. UN proper shipping name**

HYDROGEN PEROXIDE, AQUEOUS SOLUTION

**14.3. Transport hazard class(es)**

Class	5.1
Subsidiary risk	8

**14.4. Packing group**

Packing group	II
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**Air transport ICAO/IATA****14.1. UN number**

UN 2014

**14.2. UN proper shipping name**

HYDROGEN PEROXIDE, AQUEOUS SOLUTION

**14.3. Transport hazard class(es)**

Class	5.1
Subsidiary risk	8

**14.4. Packing group**

Packing group	II
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**15. Regulatory information****15.2. Chemical safety assessment**

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

**16. Other information****R-phrases listed in chapter 3**

20/22	Harmful by inhalation and if swallowed.
35	Causes severe burns.
5	Heating may cause an explosion.
8	Contact with combustible material may cause fire.

**Hazard statements listed in chapter 3**

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

**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.