

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2017

Version: 3

Revision: 16.09.2015

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

#### 1.1 Product identifier

**Trade name:** SONAX HYDROGEN PEROXIDE 7.9 %

**Article number:** 621700.05

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

##### Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**Application of the substance / the mixture** Water treatment

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

##### Manufacturer/Supplier:

SONAX GmbH

Münchener Straße 75

D-86633 Neuburg (Donau)

Tel.: ++49 (0)8431/53-0

##### Further information obtainable from:

Product safety

E-mail: erp@sonax.de

Phone: + +49 (0) 8431 53 217

**1.4 Emergency telephone number:** Emergency Phone Munich Tel.: +49 (0)89 19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Eye Irrit. 2 H319 Causes serious eye irritation.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

##### Hazard pictograms



GHS07

**Signal word** Warning

##### Hazard statements

H319 Causes serious eye irritation.

##### Precautionary statements

P280 Wear eye 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.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3 Other hazards

##### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Description:** Hydrogen peroxide in aqueous solution ( 7.9 % )

##### Dangerous components:

CAS: 7722-84-1	hydrogen peroxide	5 - <10%
EINECS: 231-765-0	⚠ Ox. Liq. 1, H271; ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412	
Reg.nr.: 01-2119485845-22-xxxx		

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**Additional information:** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of unconsciousness place patient stably in side position for transportation.

Take affected persons out of danger area and lay down.

Immediately remove any clothing soiled by the product.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:**

Wash the areas of skin affected with water and a mild detergent.

If symptoms persist consult doctor.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:**

Rinse out mouth and then drink plenty of water.

Call for a doctor immediately.

**4.2 Most important symptoms and effects, both acute and delayed** Eye irritation**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment in accordance with the doctor's assessment of the patient's condition. Symptomatic treatment.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

**Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents:** Extinguishing powder

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

In case of fire, the following can be released:

Oxygen

**5.3 Advice for firefighters**

**Protective equipment:** Wear self-contained respiratory protective device.

**Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Cool endangered receptacles with water spray.

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

Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Dilute with plenty of water.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Flush away residues with water.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with the eyes and skin.

Ensure that washing facilities are available at the work place.

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Do not breathe vapour.  
Do not refill residue into storage receptacles.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Store in a cool place.

Store in dry conditions.

Store only in the original receptacle.

**Information about storage in one common storage facility:**

Store away from foodstuffs.

Do not store together with alkalis (caustic solutions).

Store away from reducing agents.

**Further information about storage conditions:** Protect from heat and direct sunlight.**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 7722-84-1 hydrogen peroxide**

WEL (Great Britain)	Short-term value: 2.8 mg/m <sup>3</sup> , 2 ppm
	Long-term value: 1.4 mg/m <sup>3</sup> , 1 ppm

**DNELs****CAS: 7722-84-1 hydrogen peroxide**

Inhalative	DNEL	1.93 mg/m <sup>3</sup> (consumer) (Acute - local effects)
		0.21 mg/m <sup>3</sup> (consumer) (Long-term - local effects)
		3 mg/m <sup>3</sup> (worker) (Acute - local effects)
		1.4 mg/m <sup>3</sup> (worker) (Long-term - systemic effects)

**PNECs****CAS: 7722-84-1 hydrogen peroxide**

PNEC	4.66 mg/l (STP) (380)
	0.47 mg/kg dw (sediment (fresh water))
	0.47 mg/kg dw (sediment (sea water))
	0.0023 mg/kg dw (soil)
	0.0138 mg/l (water (intermittent release))
	0.0126 mg/l (water (fresh water))
	0.0126 mg/l (water (sea water))

**Additional information:** The lists valid during the making were used as basis.**8.2 Exposure controls****Suitable technical control devices**

Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.

**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

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**Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

The following breathing protection is recommended:

NO-P3

**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.4$  mm

[EN 374]

**Penetration time of glove material** Value for the permeation: Level 6 ( $\geq 480$  min)

**Not suitable are gloves made of the following materials:**

Leather gloves

Strong material gloves

**Eye protection:**

Safety glasses

[EN 166]

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Not determined.

**pH-value:** Not determined.

**Change in condition**

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	~ 100 °C

**Flash point:** Not applicable.

**Flammability (solid, gas):** Not applicable.

**Ignition temperature:**

**Decomposition temperature:** Not determined.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

**Vapour pressure:** Not determined.

**Density at 20 °C:** 1.03 - 1.04 g/cm<sup>3</sup>

**Relative density** Not determined.

**Vapour density** Not determined.

**Evaporation rate** Not determined.

**Solubility in / Miscibility with**

**water:** Fully miscible.

**Partition coefficient: n-octanol/water:** Not determined.

**Viscosity:**

**Flow time at 20 °C** 10 - 15 s (DIN EN ISO 2431/4mm)

**Dynamic:** Not determined.

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**Kinematic:**  
**9.2 Other information**

Not determined.  
No further relevant information available.

### SECTION 10: Stability and reactivity

**10.1 Reactivity** oxidizing agents

**10.2 Chemical stability** Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

In case of fire, the following can be released:

Oxygen

**10.4 Conditions to avoid** Protect from heat and direct sunlight.

**10.5 Incompatible materials:**

Store away from metals.

Do not store together with alkalis (caustic solutions).

Store away from reducing agents.

Protect from contamination.

**10.6 Hazardous decomposition products:** Oxygen

**Additional information:**

Product is an oxidizing agent and reactive. Stable at room temperature. Risk of decomposition when exposed to heat.

Risk of self-accelerated, exothermic decomposition with evolution of oxygen in contact with impurities, decomposition catalysts, incompatible materials (see 10.5). Mixtures with combustible material may have explosive properties.

### SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

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

**LD/LC50 values relevant for classification:**

**CAS: 7722-84-1 hydrogen peroxide**

Oral	LD50	1190-1270 mg/kg (rat) (35% hydrogen peroxide)
Dermal	LD50	> 200 mg/kg (rabbit) (35% hydrogen peroxide)
Inhalative	LC50/4h	> 0.17 mg/l (rat) (Vapour (generated from 50% hydrogen peroxide))

**Primary irritant effect:**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

On the basis of the available data, the classification criteria are not complied with (Conventional Method).

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

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

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

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

### SECTION 12: Ecological information

**12.1 Toxicity** There are no ecotoxicological data available on this mixture.

**Aquatic toxicity:**

**CAS: 7722-84-1 hydrogen peroxide**

EC50 / 16h	11 mg/l (Pseudomonas putida)
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EC50 / 24h	7.7 mg/l (Daphnia magna)
IC50 / 72h	2.5 mg/l (Chlorella vulgaris)
LC50 / 24h	31 mg/l (Oncorhynchus mykiss)
LC50 / 96 h	16.4 mg/l (Pimephales promelas)
NOEC / 21d	0.63 mg/l (Daphnia magna)
NOEC / 72 h	0.1 mg/l (Chlorella vulgaris)
	0.63 mg/l (Skeletonema costatum)

**12.2 Persistence and degradability** Easily biodegradable

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**Additional ecological information:**

**General notes:**

The product does not contain organically bounded halogens (AOX-free).

The product does not contain organic complexing agents.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

**Recommendation** Waste must be disposed of while observing the local, official regulations.

**European waste catalogue**

16 09 03\* peroxides, for example hydrogen peroxide

**Uncleaned packaging:**

15 01 10\*: packaging containing residues of or contaminated by dangerous substances

**Recommendation:**

Packaging may be reused or recycled after cleaning.

15 01 02: plastic packaging

**Recommended cleansing agents:** Water

### SECTION 14: Transport information

**14.1 UN-Number**  
ADR, IMDG, IATA Void

**14.2 UN proper shipping name**  
ADR, IMDG, IATA Void

**14.3 Transport hazard class(es)**  
ADR, ADN, IMDG, IATA  
Class Void

**14.4 Packing group**  
ADR, IMDG, IATA Void

**14.5 Environmental hazards:**  
**Marine pollutant:** No

**14.6 Special precautions for user** Not applicable.

**UN "Model Regulation":** Void

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations:****Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

**Abbreviations and acronyms:**

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = Lethal Concentration

EC50 = half maximal effective concentration

log POW = Octanol / water partition coefficient

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ATE: acute toxicity estimate

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IOELV = indicative occupational exposure limit values

Ox. Liq. 1: Oxidizing liquids – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**\* Data compared to the previous version altered.**