

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.03.2018

Version number 102

Revision: 26.01.2018

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

- **1.1 Product identifier**
- **Trade name** *EWE disinfectant for standpipe test unit*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** *Disinfectant*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
*Wilhelm Ewe GmbH & Co. KG
Volkmaroder Str. 19
38104 Braunschweig
Tel: +49 (0)531-37005-0
Fax: +49 (0)531-37005-35
eMail: info@ewe-armaturen.de
www.ewe-armaturen.de*
- **Informing department:** *Product safety department*
- **1.4 Emergency telephone number:**
*Poison Control Center, Mainz
Tel. 00 49 / 61 31 / 19 240*

* 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**



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- **Signal word** *Warning*
- **Hazard statements**
H319 Causes serious eye irritation.
- **Precautionary statements**
 - P264 Wash thoroughly after handling.*
 - P280 Wear 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.*
 - P337+P313 If eye irritation persists: Get medical advice/attention.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

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SECTION 3: Composition/information on ingredients

- 3.2 Mixtures

- **Description:** Mixture of the substances listed below with harmless additions (aqueous solution).

- Dangerous components:

CAS: 7722-84-1	hydrogen peroxide solution	2.5-10%
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		

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

- **Composition/Ingredients** silver (CAS 7440-22-4) < 0,1%

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- General advice:

Personal protection for the First Aider.

Keep warm, position comfortably and cover well.

In case of unconsciousness bring patient into stable side position for transport.

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.

- After skin contact

Remove contaminated clothing immediately. Wash affected areas with plenty of water und soap. If irritation continues, contact a doctor.

- After eye contact

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

- **After swallowing** Rinse out mouth and then drink plenty of water.

- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media

- Suitable extinguishing agents

Product is non-flammable. Use fire fighting measure that suit the surroundings.

- 5.2 Special hazards arising from the substance or mixture

Produkt ist nicht brennbar. Bei Umgebungsbränden Zersetzungsgefahr mit Freisetzung von Sauerstoff. Freisetzung von Sauerstoff wirkt brandfördernd. Gefahr der Überdruckbildung und Berstgefahr bei Zersetzung in abgeschlossenen Behältern und Rohrleitungen.

- 5.3 Advice for firefighters

- Protective equipment:

See section 8.

Wear full protective suit with self-contained breathing apparatus.

- Additional information

Endangered containers in the surrounding area should be cooled with a water-hose.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment and keep unprotected persons away.

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- 6.2 Environmental precautions:

Dilute with much water.

Do not allow to enter drainage system, surface or ground water.

If large amounts are released, the authorities must be informed.

- 6.3 Methods and material for containment and cleaning up:

Dilute with much water.

Absorb with inert absorbent material (sand, diatomite, acid binders, universal binders). Do not use combustible/oxidizable substances.

Ensure adequate ventilation.

Contaminated material has to be disposed as waste (see item 13).

- 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 information on disposal.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Do not replace residual quantities in storage containers.

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact.

Prevent formation of aerosols.

- Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

- 7.2 Conditions for safe storage, including any incompatibilities**- Storage** Store in cool, dry conditions in well sealed containers.**- Requirements to be met by storerooms and containers:**

Observe official regulations on storage and handling of water hazardous substances

Store in original containers or in PE-containers.

Use only containers specifically permitted for this substance/product.

- Information about storage in one common storage facility: Store away from flammable substances.**- Further information about storage conditions:** Keep container tightly sealed.**- 7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.**- 8.1 Control parameters****- Components with critical values that require monitoring at the workplace:****7722-84-1 hydrogen peroxide solution**WEL Short-term value: 2.8 mg/m³, 2 ppmLong-term value: 1.4 mg/m³, 1 ppm**- DNELs****7722-84-1 hydrogen peroxide solution**Inhalative DNEL (population) 1.93 mg/m³ (Acute - local effects)0.21 mg/m³ (Long-term - local effects)DNEL (worker) 3 mg/m³ (Acute - local effects)1.4 mg/m³ (Long-term - systemic effects)

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- PNECs	
7722-84-1 hydrogen peroxide solution	
PNEC STP	4.66 mg/l (380)
PNEC aqua	0.0126 mg/l (fresh water) 0.0126 mg/l (marine water) 0.0138 mg/l (intermittent releases)
PNEC sediment	0.47 mg/kg dw (fresh water) 0.47 mg/kg dw (marine water)
PNEC soil	0.0023 mg/kg dw (soil)

- **Additional information:** The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls

- Personal protective equipment

- General protective and hygienic measures

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Gases, fumes and aerosols should not be inhaled.

- Breathing equipment:

In case of dizzying-dust breathing protection is required

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

- Recommended filter device for short term use: Special gas filter NO-P3

- Protection of hands:

Protective gloves.

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- For the permanent contact gloves made of the following materials are suitable:

Natural rubber, NR

Chloroprene rubber, CR

PVC gloves

Attention! Due to conditions (stressing, temperature) the practical usage of chemical protective gloves may be much shorter than the permeation time according to EN 374.

- Eye protection: Tightly sealed safety glasses.

- Body protection:

Standard protective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear impenetrable protective clothing against this solvent.

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SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Fluid
Colour: Not determined.

- **Smell:** Characteristic

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

- Change in condition

Melting point/freezing point: Not determined

Initial boiling point and boiling range: > 80 °C
 Zersetzung

- **Flash point:** Product is non-flammable nor potentially explosive

- **Decomposition temperature:** Not determined.

- **Self-inflammability:** Product is not selfigniting.

- **Explosive properties:** Product is not potentially explosive

- Critical values for explosion:

Lower: Not determined.

Upper: Not determined.

- **Vapour pressure:** Not determined.

- **Density at 20 °C** ca. 1,032 g/cm³

- Solubility in / Miscibility with

Water: Fully miscible

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

- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.

- 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

To avoid: warmth, direct sunlight.

- 10.3 Possibility of hazardous reactions

Reacts with impurities

Reacts with flammable substances

Reacts with reducing agents

Reacts with organic substances

Danger of bursting

- **10.4 Conditions to avoid** No further relevant information available.

- 10.5 Incompatible materials:

All kinds of impurities.

Metal ions, metals, alkali, reducing agents, combustible materials, solvents.

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- **10.6 Hazardous decomposition products:** Oxygen (may cause fire).

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 that are relevant for classification:****7722-84-1 hydrogen peroxide solution**

Oral	LD50	1190-1270 mg/kg (rat) 1232 mg/kg (rat) (H ₂ O ₂ 35%)
Dermal	LD50	> 2000 mg/kg (rab) (H ₂ O ₂ 70%)
Inhalative	LC 50 / 4 h	> 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** Based on available data, the classification criteria are not met.- **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**- **Aquatic toxicity:****7722-84-1 hydrogen peroxide solution**

EC 10 / 16 h	11 mg/l (<i>Pseudomonas putida</i>)
EC 50 / 24 h	7.7 mg/l (<i>Daphnia magna</i>)
EC 50 / 48 h	2.4 mg/l (<i>Daphnia pulex</i>)
IC 50 / 72 h	2.5 mg/l (<i>Chlorella vulgaris</i>)
LC 50 / 24 h	31 mg/l (<i>Oncorhynchus mykiss</i>)
LC 50 / 96 h	16.4 mg/l (<i>Pimephales promelas</i>)
NOEC	0.63 mg/l (<i>Daphnia magna</i>) (21 d)
NOEC / 72 h	0.1 mg/l (<i>Chlorella vulgaris</i>) 0.63 mg/l (<i>Skeletonema costatum</i>)

- **12.2 Persistence and degradability** No further relevant information available.- **12.3 Bioaccumulative potential** No further relevant information available.- **12.4 Mobility in soil** No further relevant information available.- **Additional ecological information:**- **General notes:**

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

Water hazard class 1 (Self-assessment): slightly hazardous for water.

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- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
 - **12.6 Other adverse effects** No further relevant information available.
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SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.
 - **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 - **Waste disposal key number:**
Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.
 - **Uncleaned packagings:** Disposal must be made according to official regulations.
 - **Recommendation:**
After complete emptying and cleaning, send to be reconditioned or recycled.
Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.
Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.
 - **Recommended cleaning agent:** Water, if necessary with cleaning agent.
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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, IMDG, IATA	
- Class	Void
- 14.4 Packing group	
- ADR, IMDG, IATA	Void
- 14.5 Environmental hazards:	Not applicable.
- Marine pollutant:	No
- 14.6 Special precautions for user	Not applicable.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	Not dangerous according to the above specifications.
- 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**
- **Labelling according to Regulation (EC) No 1272/2008**

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

- **Hazard pictograms**



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- **Signal word** Warning
- **Hazard statements**
H319 Causes serious eye irritation.
- **Precautionary statements**
P264 Wash thoroughly after handling.
P280 Wear 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.
P337+P313 If eye irritation persists: Get medical advice/attention.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations**
- **Information about limitation of use:**
Employment restrictions concerning young persons must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.
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.
- **Department issuing data specification sheet:** see item 1: Informing department
- **Abbreviations and acronyms:**
RPE: Respiratory Protective Equipment
RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)
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
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances

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*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**vPvB: very Persistent and very Bioaccumulative**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.**

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