

1 Identification of substance

- **Product details**
- **Trade name:** Esdogen Desinfect
- **Article number:** 2268-AA-001
- **Application of the substance / the preparation**
Activated concentrate for oxygen bleach and for laundry disinfection of textiles made of cotton and synthetics for application in the ESDOGEN system.
- **Manufacturer/Supplier:**
Chemische Fabrik Kreussler & Co. GmbH
Postfach 120454
D-65082 Wiesbaden
- **Information department:**
Abteilung TQM
Herr Vogel
+49 (0) 611 9271-175

2 Composition/Data on components

- **Chemical characterization**
- **Description:** Peracetic acid, hydrogen peroxide, stabiliser

- **Dangerous components:**

7722-84-1	hydrogen peroxide solution	C, O; R 8-20/22-34	10-25%
64-19-7	acetic acid	C; R 10-35	2.5-10%
79-21-0	peracetic acid	C, O, N; R 7-10-20/21/22-35-50	2.5-10%

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

3 Hazards identification

- **Hazard description:**
C Corrosive
O Oxidizing
- **Information pertaining to particular dangers for man and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
R 7 May cause fire.
R 34 Causes burns.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**
Health = 3
Fire = 3
Reactivity = 0
The substance possesses oxidizing properties.
- **HMIS-ratings (scale 0 - 4)**
Health = 3
Fire = 3
Reactivity = 0

4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

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- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Dilute with plenty of water.
- **Measures for cleaning/collecting:**
Small spills - wash to sanitary sewer with plenty of water. Large spills - soak up with approved absorbent, shovel produkt into approved container for disposal. Wash area with plenty of water. Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

7722-84-1 hydrogen peroxide solution

PEL	1.4 mg/m ³ , 1 ppm
REL	1.4 mg/m ³ , 1 ppm
TLV	1.4 mg/m ³ , 1 ppm

64-19-7 acetic acid

PEL	25 mg/m ³ , 10 ppm
REL	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm
TLV	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

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- **Breathing equipment:** Not required.
- **Protection of hands:** Protective gloves
- **Material of gloves**
PVC or PE gloves
Recommended thickness of the material: ≥ 0.4 mm
- **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**
PVC or PE gloves
- **Eye protection:** Tightly sealed goggles

9 Physical and chemical properties

· General Information

Form:	Fluid
Color:	Colorless
Odor:	Pungent

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

· **Flash point:** Not applicable.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density at 20°C (68°F):** 1.09 g/cm³

· Solubility in / Miscibility with

Water: Fully miscible.

· **pH-value at 20°C (68°F):** 1

· Solvent content:

Organic solvents: 0.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
Acute oral toxicity: >2000mg/kg (Rats)
calculated from data of constituent parts.
- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive

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Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

- **General notes:**

On the basis of the raw materials data, including in the product, the following ecological data are to expected.

bio-degradable

13 Disposal considerations

- **Product:**

- **Recommendation:** Dispose of in accordance with local, state, and federal Regulations.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **DOT regulations:**

- **Hazard class:** 5.1

- **Identification number:** UN3149

- **Packing group:** II

- **Proper shipping name (technical name):** HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

- **Label:** 5.1+8

- **Land transport ADR/RID (cross-border):**

- **ADR/RID class:** 5.1 Oxidizing substances

- **Danger code (Kemler):** 58

- **UN-Number:** 3149

- **Packaging group:** II

- **Description of goods:** 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

- **Maritime transport IMDG:**

- **IMDG Class:** 5.1

- **UN Number:** 3149

- **Label:** 5.1+8

- **Packaging group:** II

- **EMS Number:** F-H,S-Q

- **Marine pollutant:** Yes

- **Propper shipping name:** HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** 5.1

- **UN/ID Number:** 3149

- **Label:** 5.1+8

- **Packaging group:** II

- **Propper shipping name:** HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

- USA

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15 Regulations

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

None of the ingredients is listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

- **Carcinogeny categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Canada WHMIS**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the informations required by the CPR.

- **WHMIS Class WHMIS-Class C**

- **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

- **Hazard symbols:**

C Corrosive
O Oxidizing

- **Hazard-determining components of labelling:**

hydrogen peroxide solution
peracetic acid

- **Risk phrases:**

7 May cause fire.
34 Causes burns.

- **Safety phrases:**

3/7 Keep container tightly closed in a cool place.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). (Contd. of page 5)

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.

· Department issuing MSDS:

Abteilung TQM

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· Contact: Herr Vogel

USA