

Trade name: Disinfection concentrate - not ready to use  
Version: 4.0.1 / GB

Status: 20.01.2010  
Date of printing: 20.01.2010

## 1.) Identification of the substance/preparation and of the company/undertaking

### Identification of the substance or preparation

#### Trade name

**Disinfection concentrate - not ready to use**

Order No. 0201-0003-008

#### Use of the substance/preparation

Disinfectant

### Company/undertaking identification

#### Address

EKF diagnostic GmbH  
Ebendorfer Chaussee 3  
D-39179 Barleben

Telephone no. +49 (0)3 92 03 / 7 85 - 0

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#### Information provided by / telephone

EKF diagnostic GmbH  
Telephone: +49 (0)39203 / 785 - 0 (7 am - 4 pm on workdays)

#### Emergency telephone

+49 (0) 551 / 19240 Poison Information Centre North(Giftinformationszentrale Nord)

#### Advice on Safety Data Sheet

support@ekf-diagnostic.de

## 2.) Hazards identification

### Classification

|            |   |
|------------|---|
| Xn; R20/22 | Harmful by inhalation and if swallowed.                 |
| Xi; R37/38 | Irritating to respiratory system and skin.              |
| Xi; R41    | Risk of serious damage to eyes.                         |
| R42/43     | May cause sensitisation by inhalation and skin contact. |

### Hazard symbols

|    |         |
|----|---------|
| Xn | Harmful |
|----|---------|

### R phrases

|       |   |
|-------|---|
| 20/22 | Harmful by inhalation and if swallowed.                 |
| 37/38 | Irritating to respiratory system and skin.              |
| 41    | Risk of serious damage to eyes.                         |
| 42/43 | May cause sensitisation by inhalation and skin contact. |

## 3.) Composition / information on ingredients

### Chemical characterization

aqueous solution

### Hazardous ingredients

#### METHANOL

|                |           |                 |                         |         |         |
|----------------|-----------|-----------------|-------------------------|---------|---------|
| EC no.         | 200-659-6 | Index no.       | 603-001-00-X            | CAS no. | 67-56-1 |
| Concentration  | < 1       |                 | %-b.w.                  |         |         |
| Classification | F; R11    | T; R39/23/24/25 | T; R23/24/25            |         |         |
| Hazard symbols | F, T      | R phrases       | 11-23/24/25-39/23/24/25 |         |         |

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**GLUTARDIALDEHYD**

|                |           |           |                   |         |          |
|----------------|-----------|-----------|-------------------|---------|----------|
| EC no.         | 203-856-5 | Index no. | 605-022-00-X      | CAS no. | 111-30-8 |
| Concentration  | > 10      | < 25      | %-b.w.            |         |          |
| Classification | T; R23/25 | C; R34    | N; R50            | R42/43  |          |
| Hazard symbols | T, N      | R phrases | 23/25-34-42/43-50 |         |          |

**PROPAN-2-OL**

|                |           |           |              |         |         |
|----------------|-----------|-----------|--------------|---------|---------|
| EC no.         | 200-661-7 | Index no. | 603-117-00-0 | CAS no. | 67-63-0 |
| Concentration  | > 1       | < 5       | %-b.w.       |         |         |
| Classification | F; R11    | Xi; R36   | R67          |         |         |
| Hazard symbols | F, Xi     | R phrases | 11-36-67     |         |         |

**DIDECYLDIMETHYLAMMONIUM CHLORIDE**

|                |           |           |              |         |           |
|----------------|-----------|-----------|--------------|---------|-----------|
| EC no.         | 230-525-2 | Index no. | 612-131-00-6 | CAS no. | 7173-51-5 |
| Concentration  | > 5       | < 10      | %-b.w.       |         |           |
| Classification | C; R34    | Xn; R22   |              |         |           |
| Hazard symbols | C         | R phrases | 22-34        |         |           |

**QUATERNARY AMMONIUM COMPOUNDS, BENZYLCOCO ALKYL DIMETHYL, CHLORIDES**

|                |           |            |             |         |            |
|----------------|-----------|------------|-------------|---------|------------|
| EC no.         | 263-080-8 | Index no.  | -           | CAS no. | 61789-71-7 |
| Concentration  | > 5       | < 10       | %-b.w.      |         |            |
| Classification | C; R34    | Xn; R21/22 | N; R50      |         |            |
| Hazard symbols | C, N      | R phrases  | 21/22-34-50 |         |            |

**FATTY ALCOHOL POLYGLYCOLETHER**

|                |            |           |        |         |   |
|----------------|------------|-----------|--------|---------|---|
| EC no.         | -          | Index no. | -      | CAS no. | - |
| Concentration  | > 5        | < 10      | %-b.w. |         |   |
| Classification | Xi; R36/38 |           |        |         |   |
| Hazard symbols | Xi         | R phrases | 36/38  |         |   |

**FATTY ALCOHOL POLYGLYCOLETHER ( 3-12 mlo EO)**

|                |            |           |        |         |            |
|----------------|------------|-----------|--------|---------|------------|
| EC no.         | -          | Index no. | -      | CAS no. | 69011-36-5 |
| Concentration  | > 5        | < 10      | %-b.w. |         |            |
| Classification | Xi; R36/38 |           |        |         |            |
| Hazard symbols | Xi         | R phrases | 36/38  |         |            |

**4.) First aid measures****General information**

In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

**After inhalation**

Ensure supply of fresh air.

**After skin contact**

Wash off immediately with soap and water.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Eye treatment by an oculist.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Call a doctor.

**5.) Fire-fighting measures****Suitable extinguishing media**

Carbon dioxide; extinguishing powder; Water spray jet

**Extinguishing media that must not be used for safety reasons**

Full water jet

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide and smoke.

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**Special protective equipment for fire-fighters**  
Use self-contained breathing apparatus. Wear protective clothing.

**6.) Accidental release measures**

**Personal precautions**  
Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

**Environmental precautions**  
Do not discharge into the drains/surface waters/groundwater.

**Methods for cleaning up/taking up**  
Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Send in suitable containers for recovery or disposal.

**7.) Handling and storage**

**Handling**

**Advice on safe handling**  
Provide good ventilation of working area (local exhaust ventilation, if necessary).

**Advice on protection against fire and explosion**  
Keep away from sources of ignition - refrain from smoking.

**Storage**

**Requirements for storage rooms and vessels**  
Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

**Advice on storage assembly**  
Do not store together with foodstuffs.

**Further information on storage conditions**  
Keep container tightly closed in a well-ventilated place. Keep from freezing.

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

**Exposure limit values**

**METHANOL**

CAS no. 67-56-1  
EC no. 200-659-6

**List of approved workplace exposure limits (WELs) / EH40**

|                                      |     |                   |     |                   |
|--------------------------------------|-----|-------------------|-----|-------------------|
| Methanol                             |     |                   |     |                   |
| TWA                                  | 266 | mg/m <sup>3</sup> | 200 | ml/m <sup>3</sup> |
| STEL                                 | 333 | mg/m <sup>3</sup> | 250 | ml/m <sup>3</sup> |
| Skin resorption /<br>sensibilisation | Sk  |                   |     |                   |

**2006/15/EG**

|                                      |      |                   |     |                   |
|--------------------------------------|------|-------------------|-----|-------------------|
| Methanol                             |      |                   |     |                   |
| TWA                                  | 260  | mg/m <sup>3</sup> | 200 | ml/m <sup>3</sup> |
| Skin resorption /<br>sensibilisation | Skin |                   |     |                   |

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**GLUTARDIALDEHYD**

CAS no. 111-30-8  
EC no. 203-856-5

**List of approved workplace exposure limits (WELs) / EH40**

Glutaraldehyde

|                                      |     |                   |      |                   |
|--------------------------------------|-----|-------------------|------|-------------------|
| TWA                                  | 0,2 | mg/m <sup>3</sup> | 0,05 | ml/m <sup>3</sup> |
| STEL                                 | 0,2 | mg/m <sup>3</sup> | 0,05 | ml/m <sup>3</sup> |
| Skin resorption /<br>sensibilisation | Sen |                   |      |                   |

**PROPAN-2-OL**

CAS no. 67-63-0  
EC no. 200-661-7

**List of approved workplace exposure limits (WELs) / EH40**

Propan-2-ol

|      |      |                   |     |                   |
|------|------|-------------------|-----|-------------------|
| TWA  | 999  | mg/m <sup>3</sup> | 400 | ml/m <sup>3</sup> |
| STEL | 1250 | mg/m <sup>3</sup> | 500 | ml/m <sup>3</sup> |

**Personal protective equipment**

**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn.

**Hand protection**

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product . Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material butyl rubber  
Appropriate Material nitrile

**Eye protection**

Safety glasses (EN 166)

**Skin protection**

Clothing as usual in the chemical industry.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Avoid contact with eyes and skin.

**9.) Physical and chemical properties**

**General information**

Form liquid  
Colour light yellow  
Odour characteristic

**Important health, safety and environmental information**

**Changes in physical state**

Type Boiling point  
Value not determined  
Type Melting point  
Value not determined

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**Flash point**

Value 58 °C

**Vapour pressure**

Value < 0,01 hPa

**Density**

Value 1,02 g/cm<sup>3</sup>  
Reference temperature 20 °C

**Viscosity**

Type dynamic  
Value 40 mPa\*s

**Solubility in water**

Remarks Completely miscible

**pH value**

Value 3  
Reference temperature 20 °C

**10.) Stability and reactivity**

**Conditions to avoid**

None, if handled according to order.

**Materials to avoid**

None known.

**Hazardous decomposition products**

None, if handled according to order

**Thermal decomposition**

Remarks No decomposition if used as prescribed.

**11.) Toxicological information**

**Experience in practice**

Irritating effects on the skin and mucous membrane.  
Possibility of sensitisation through skin contact.  
Danger of acute eye damage.

**Other information (chapter 11.)**

Product specific toxicological data are not known.

**12.) Ecological information**

**Ecotoxicity**

**Fish toxicity**

LC50 5 - 7 mg/l  
Species golden orfe  
Method OECD 203

**Bacteria toxicity**

EC10 8 mg/l  
Species Pseudomonas putida  
Method DIN 38412 T.8

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**Persistence and degradability**

**Biodegradability**

|         |  |   |
|---------|--|---|
| Value   | 12   | % |
| Type    | BOD  |   |
| Method  | OECD 301 D   |   |
| Value   | 25   | % |
| Type    | COD  |   |
| Method  | OECD 303A  |   |
| Remarks | Among the contained organic carbon compounds are biodegradable as follows:<br>good/very good: 67%, moderate : 32%, bad: 1% |   |

**Other adverse effects**

Do not discharge into the drains or waters and do not store on public depositories.

**13.) Disposal considerations**

**Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.  
Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

**14.) Transport information**

**Land transport ADR/RID**

|                            |                          |                     |    |
|----------------------------|--------------------------|---------------------|----|
| Class                      | 3                        | Classification code | F1 |
| Packing group              | III                      |                     |    |
| Hazard identification no.  | 30                       |                     |    |
| Label                      | 3                        |                     |    |
| UN number                  | 1993                     |                     |    |
| Technical name             | Flammable liquid, n.o.s. |                     |    |
| Special Provision 640      | E                        |                     |    |
| Danger releasing substance | PROPAN-2-OL              |                     |    |

**Marine transport IMDG**

|                            |                          |
|----------------------------|--------------------------|
| Class                      | 3                        |
| Packing group              | III                      |
| UN number                  | 1993                     |
| Proper shipping name       | Flammable liquid, n.o.s. |
| Danger releasing substance | PROPAN-2-OL              |
| EmS                        | F-E, S-E                 |
| MARPOL                     | --                       |
| Label                      | 3                        |

**Air transport ICAO/IATA**

|                            |                          |
|----------------------------|--------------------------|
| Class                      | 3                        |
| Packing group              | III                      |
| UN number                  | 1993                     |
| Proper shipping name       | Flammable liquid, n.o.s. |
| Danger releasing substance | PROPAN-2-OL              |
| Label                      | 3                        |

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## 15.) Regulatory information

### Labelling in accordance with EC directives

The product is classified and labelled in accordance with EC Directive 1999/45/EC.

### Hazard symbols

Xn Harmful

### Hazardous component(s) to be indicated on label, contains:

GLUTARDIALDEHYD  
DIDECYLDIMETHYLAMMONIUM CHLORIDE  
QUATERNARY AMMONIUM COMPOUNDS, BENZYLCOCO ALKYLDIMETHYL, CHLORIDES

### R phrases

20/22 Harmful by inhalation and if swallowed.  
37/38 Irritating to respiratory system and skin.  
41 Risk of serious damage to eyes.  
42/43 May cause sensitisation by inhalation and skin contact.

### S phrases

23.6 Do not breathe vapour/spray.  
24 Avoid contact with skin.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
37/39 Wear suitable gloves and eye/face protection.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.

## 16.) Other information

### Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.  
Regulation (EC) No 1907/2006 (REACH) as amended in each case.  
EC Directives 2000/39/EC, 2006/15/EC as amended in each case.  
National Threshold Limit Values of the corresponding countries as amended in each case.  
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.  
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

### Relevant R-phrases (chapter 3):

11 Highly flammable.  
21/22 Harmful in contact with skin and if swallowed.  
22 Harmful if swallowed.  
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
23/25 Toxic by inhalation and if swallowed.  
34 Causes burns.  
36 Irritating to eyes.  
36/38 Irritating to eyes and skin.  
39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.  
42/43 May cause sensitisation by inhalation and skin contact.  
50 Very toxic to aquatic organisms.  
67 Vapours may cause drowsiness and dizziness.

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**Department issuing safety data sheet**

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