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

Fax no. +49 (0)3 92 03 / 7 85 - 16

**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(Gifitinformatonszentrale 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**

<table>
<thead>
<tr>
<th>EC no.</th>
<th>200-659-6</th>
<th>Index no.</th>
<th>603-001-00-X</th>
<th>CAS no.</th>
<th>67-56-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration</td>
<td>&lt; 1</td>
<td>%-b.w.</td>
<td>Classification</td>
<td>F; R11</td>
<td>T; R39/23/24/25</td>
</tr>
</tbody>
</table>
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 ALKYLDIMETHYL, 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.
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

<table>
<thead>
<tr>
<th></th>
<th>CAS no.</th>
<th>EC no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>67-56-1</td>
<td>200-659-6</td>
</tr>
</tbody>
</table>

List of approved workplace exposure limits (WELs) / EH40
Methanol
TWA 266 mg/m³ 200 ml/m³
STEL 333 mg/m³ 250 ml/m³
Skin resorption / sensibilisation Sk

2006/15/EG
Methanol
TWA 260 mg/m³ 200 ml/m³
Skin resorption / sensibilisation Skin
GLUTARDIALDEHYD

<table>
<thead>
<tr>
<th>CAS no.</th>
<th>111-30-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC no.</td>
<td>203-856-5</td>
</tr>
</tbody>
</table>

List of approved workplace exposure limits (WELs) / EH40

Glutaraldehyde

<table>
<thead>
<tr>
<th>TWA</th>
<th>0,2 mg/m³</th>
<th>0,05 ml/m³</th>
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</thead>
<tbody>
<tr>
<td>STEL</td>
<td>0,2 mg/m³</td>
<td>0,05 ml/m³</td>
</tr>
</tbody>
</table>

Skin resorption / sensibilisation

PROPN-2-OL

<table>
<thead>
<tr>
<th>CAS no.</th>
<th>67-63-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC no.</td>
<td>200-661-7</td>
</tr>
</tbody>
</table>

List of approved workplace exposure limits (WELs) / EH40

Propan-2-ol

<table>
<thead>
<tr>
<th>TWA</th>
<th>999 mg/m³</th>
<th>400 ml/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEL</td>
<td>1250 mg/m³</td>
<td>500 ml/m³</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Form</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>light yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

Important health, safety and environmental information

Changes in physical state

<table>
<thead>
<tr>
<th>Type</th>
<th>Boiling point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>not determined</td>
</tr>
<tr>
<td>Type</td>
<td>Melting point</td>
</tr>
<tr>
<td>Value</td>
<td>not determined</td>
</tr>
</tbody>
</table>
Flash point
Value  58 °C

Vapour pressure
Value  < 0,01 hPa

Density
Value  1,02 g/cm³
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
Persistence and degradability

Biodegradability

<table>
<thead>
<tr>
<th>Value</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>BOD</td>
</tr>
<tr>
<td>Method</td>
<td>OECD 301 D</td>
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<tr>
<td>Value</td>
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</tr>
<tr>
<td>Type</td>
<td>COD</td>
</tr>
<tr>
<td>Method</td>
<td>OECD 303A</td>
</tr>
</tbody>
</table>
| Remarks| Among the contained organic carbon compounds are biodegradable as follows:
|       | 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
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:**

- 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.
Department issuing safety data sheet
UMCO Umwelt Consult GmbH
Georg-Wilhelm-Str. 183 b, D-21107 Hamburg
Tel.: +49 40 / 41 92 13 00   Fax: +49 40 / 41 92 13 57   e-mail: umco@umco.de

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.