

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 15.12.2008

Revision: 15.12.2008

1 Identification of substance:

- **Product details:**
- **Trade name:** Korsolex® Endo-Disinfectant
- **SAP-Code:** EN R10027
- **Application of the substance / the preparation** Disinfectants for instruments
- **Manufacturer/Supplier:**
BODE Chemie GmbH & Co. KG
Melanchthonstraße 27
D-22525 Hamburg (Germany)
Tel.: +49 (0)40 / 54 00 60
- **Informing department:**
KundenService-SiDa@bode-chemie.de
- **Emergency information:**
Giftnotruf Göttingen (Germany)
24h-Tel.: +49 (0)551 / 1 92 40

2 Hazards identification

- **Hazard designation:**



C Corrosive

- **Information pertaining to particular dangers for man and environment**
R 10 Flammable.
R 20/22 Harmful by inhalation and if swallowed.
R 34 Causes burns.
R 37 Irritating to respiratory system.
R 42/43 May cause sensitisation by inhalation and skin contact.
- **Classification system**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with harmless additions.

- **Dangerous components:**

CAS: 111-30-8 EINECS: 203-856-5	glutaral	T, C, N; R 23/25-34-42/43-50	10-25%
CAS: 64-17-5 EINECS: 200-578-6	ethanol	F; R 11	10-25%

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

4 First aid measures

- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation** Supply fresh air and call for doctor for safety reasons.
- **After skin contact**
Instantly wash with water and soap and rinse thoroughly.
Seek medical treatment.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

(Contd. on page 2)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 15.12.2008

Revision: 15.12.2008

Trade name: Korsolex® Endo-Disinfectant

(Contd. of page 1)

- **After swallowing**
Rinse out mouth and then drink plenty of water.
Call a doctor immediately.

5 Fire fighting measures

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

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation
Use breathing protection against the effects of fumes/dust/aerosol.
- **Measures for environmental protection:** Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

7 Handling and storage

- **Handling**
- **Information for safe handling:** Open and handle container with care.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:** Store only in the original container.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
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.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**
Impervious gloves.
Only use chemical-protective gloves with CE-labelling of category 3.
Check protective gloves prior to each use for their proper condition.
After use of gloves apply skin-cleaning agents and skin cosmetics.
- **Material of gloves**
1. Nitrile rubber, NBR

(Contd. on page 3)

Safety Data Sheet

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Trade name: Korsolex® Endo-Disinfectant

(Contd. of page 2)

2. Butyl rubber, BR

Recommended thickness of the material: 1. 0,4 mm / 2. 0,7 mm

· **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.

· **As protection from splashes gloves made of the following materials are suitable:**

1. Nitrile rubber, NBR

2. Butyl rubber, BR

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

· **Eye protection:** Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· **General Information**

Form:	fluid
Colour:	Light yellow
Smell:	Like aldehyde

· **Change in condition**

Melting point/Melting range: not determined

Boiling point/Boiling range: not determined

· **Flash point:** 47°C

· **Self-inflammability:** product is not selfigniting

· **Danger of explosion:** product is not explosive

· **Density at 20°C** 1,04 g/cm³

· **Solubility in / Miscibility with**

Water: fully miscible

· **pH-value (Konz. g/l) at 20°C:** ca. 2,5

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:**

· **Primary irritant effect:**

· **on the skin:** Caustic effect on skin and mucous membranes.

· **on the eye:** Strong irritant with the danger of severe eye injury.

· **Sensitization:**

Sensitization possible by inhalation.

Sensitization possible by skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Corrosive

Harmful

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 15.12.2008

Revision: 15.12.2008

Trade name: Korsolex® Endo-Disinfectant

(Contd. of page 3)

- **Sensitisation** May cause sensitisation by inhalation and skin contact.

12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is easily biodegradable.
- **Additional ecological information:** -

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated under adherence to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Dispose of packaging according to regulations on the disposal of packagings.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**



- **ADR/RID-GGVS/E Class:** 8 (CF1) Corrosive substances.
- **Kemler Number:** 83
- **UN-Number:** 2920
- **Packaging group:** II
- **Label:** 8+3
- **Designation of goods:** 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (glutaral, ethanol)

- **Maritime transport IMDG/GGVSea:**



- **IMDG/GGVSea Class:** 8+3
- **UN Number:** 2920
- **Label:** 8+3
- **Packaging group:** II
- **EMS Number:** F-E,S-C
- **Marine pollutant:** -
- **Correct technical name:** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (glutaral, ethanol)

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



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 2920
- **Label:** 8+3

(Contd. on page 5)

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Trade name: Korsolex® Endo-Disinfectant

(Contd. of page 4)

- **Packaging group:** II
- **Correct technical name:** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (glutaral, ethanol)
- **Remarks:** passanger: no single packing permits.

15 Regulatory information

- **Designation according to EC guidelines:**
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV).

- **Code letter and hazard designation of product:**



C Corrosive

- **Hazard-determining components of labelling:**
glutaral
- **Risk phrases:**
 - 10 Flammable.
 - 20/22 Harmful by inhalation and if swallowed.
 - 34 Causes burns.
 - 37 Irritating to respiratory system.
 - 42/43 May cause sensitisation by inhalation and skin contact.
- **Safety phrases:**
 - 23 Do not breathe fumes/aerosol.
 - 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.
 - 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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 R-phrases**
 - 11 Highly flammable.
 - 23/25 Toxic by inhalation and if swallowed.
 - 34 Causes burns.
 - 42/43 May cause sensitisation by inhalation and skin contact.
 - 50 Very toxic to aquatic organisms.
- *** Data compared to the previous version altered.**

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