

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 01.06.2010

Revision: 01.06.2010

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
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** Medical supervision for at least 48 hours.
- **After inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- **After skin contact**
Remove/Take off immediately all contaminated clothing.
Wash with plenty of soap and water.

(Contd. on page 2)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 01.06.2010

Revision: 01.06.2010

Trade name: Korsolex® Endo-Disinfectant

(Contd. of page 1)

- **After eye contact** Rinse cautiously with water for several minutes.
- **After swallowing**
Rinse mouth.
Do NOT induce vomiting.

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:**

67-56-1 methanol

IOELV (European Union)	260 mg/m ³ , 200 ppm
	Skin

- **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.

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 01.06.2010

Revision: 01.06.2010

Trade name: Korsolex® Endo-Disinfectant

(Contd. of page 2)

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
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.

· **Materials to be avoided:**

· **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.

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 01.06.2010

Revision: 01.06.2010

Trade name: Korsolex® Endo-Disinfectant

(Contd. of page 3)

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

· **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.

· **Ecotoxicological effects:**

· **Acquatic toxicity:**

LC50	41 mg/l (<i>Leuciscus idus</i>) (OECD 203)
------	--

· **Behaviour in sewage processing plants:**

· **Type of test Effective concentration Method Assessment**

EC10	12 mg/l (<i>Pseudomonas putida</i>) (DIN 38412 T8)
------	--

EC50	19 mg/l (<i>Pseudomonas putida</i>) (DIN 38412 T8)
------	--

· **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.

· **European waste catalogue**

07 06 01*	aqueous washing liquids and mother liquors
-----------	--

16 03 05*	organic wastes containing dangerous substances
-----------	--

18 01 06*	chemicals consisting of or containing dangerous substances
-----------	--

· **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

(Contd. on page 5)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 01.06.2010

Revision: 01.06.2010

Trade name: **Korsolex® Endo-Disinfectant**

(Contd. of page 4)

· **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:** No
 · **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
 · **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).

(Contd. on page 6)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Date of issue: 01.06.2010

Revision: 01.06.2010

Trade name: Korsolex® Endo-Disinfectant

(Contd. of page 5)

- **Information about limitation of use:**
Employment restrictions concerning pregnant and lactating women must be observed.
- **Decree to be applied in case of technical fault:**
Critical quantity values according to the regulations on accidents should be adhered to.

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.**

EUE