

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 01.06.2010

Revision: 28.05.2010

## 1 Identification of substance:

- **Product details:**
- **Trade name:** Korsolex® Endo-Cleaner
- **SAP-Code:** EN R10232
- **Application of the substance / the preparation** Instrument cleaner
- **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:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**  
R 36/38 Irritating to eyes and skin.
- **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 111905-53-4 Alkylpolyalkylenglykolether	Xi; R 36/38	1-5%
---	-------------	------

- **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

anionic surfactants	5 - 15%
non-ionic surfactants	< 5%
enzymes	

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

## 4 First aid measures

- **General information** Get medical advice/attention.
- **After inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- **After skin contact** Wash with plenty of soap and water.
- **After eye contact** Rinse cautiously with water for several minutes.
- **After swallowing**  
Rinse mouth.

(Contd. on page 2)

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 01.06.2010

Revision: 28.05.2010

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

(Contd. of page 1)

Do NOT induce vomiting.

### 5 Fire fighting measures

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Dilute with much water.
- **Additional information:** No dangerous materials are released.

### 7 Handling and storage

- **Handling**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **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.
- **Breathing equipment:** Not required.
- **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
  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

(Contd. on page 3)

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 01.06.2010

Revision: 28.05.2010

Trade name: Korsolex® Endo-Cleaner

(Contd. of page 2)

- **Not suitable are gloves made of the following materials:**  
Natural rubber, NR  
PVA gloves
- **Eye protection:** Safety glasses recommended during refilling.

### 9 Physical and chemical properties:

#### · General Information

<b>Form:</b>	fluid
<b>Colour:</b>	Light yellow
<b>Smell:</b>	Characteristic

#### · Change in condition

**Melting point/Melting range:** not determined  
**Boiling point/Boiling range:** 185°C

· **Flash point:** 101°C

· **Ignition temperature:** 371°C

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

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

· **Density at 20°C** 1,08 g/cm<sup>3</sup>

#### · Solubility in / Miscibility with

**Water:** soluble

· **pH-value (10 g/l) at 20°C:** 5-6

### 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:

#### · LD/LC50 values that are relevant for classification:

Irritation of skin	Hautreizung	- mg/kg (Kaninchen / rabbit)
Irritation of eyes	Augenreizung	- mg/kg (Kaninchen / rabbit)

#### · Primary irritant effect:

· **on the skin:** Irritant for skin and mucous membranes.

· **on the eye:** Irritant effect.

· **Sensitization:** No sensitizing effect known.

#### · 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:

Irritant

EUE

(Contd. on page 4)

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 01.06.2010

Revision: 28.05.2010

Trade name: Korsolex® Endo-Cleaner

(Contd. of page 3)

### 12 Ecological information:

- **Information about elimination (persistence and degradability):**

- **Other information:**

The product is easily biodegradable.

The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

- **Ecotoxicological effects:**

- **Acquatic toxicity:**

LC50	13 mg/l ( <i>Leuciscus idus</i> ) (OECD 203)
------	--

- **Behaviour in sewage processing plants:**

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

EC10	>1000 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:** -

- **Maritime transport IMDG/GGVSea:**

- **IMDG/GGVSea Class:** -

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

- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

### 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).

(Contd. on page 5)

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

Date of issue: 01.06.2010

Revision: 28.05.2010

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

(Contd. of page 4)

**· Code letter and hazard designation of product:***Xi Irritant***· Risk phrases:***36/38 Irritating to eyes and skin.***· Safety phrases:***26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.**37 Wear suitable gloves.***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***36/38 Irritating to eyes and skin.***· \* Data compared to the previous version altered.**

EUE