

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 21.09.2010

Revision: 21.09.2010

## 1 Identification of substance:

· **Product details:**

· **Trade name:** Kohrsolin®

· **SAP-Code:** EN R10230

· **Application of the substance / the preparation** Surface disinfectant

· **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:**



Xn Harmful

· **Information pertaining to particular dangers for man and environment**

R 20/22 Harmful by inhalation and if swallowed.

R 37/38 Irritating to respiratory system and skin.

R 41 Risk of serious damage to eyes.

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:**

EINECS: 222-720-6	(ethylenedioxy)dimethanol Xn,  Xi; R 22-38-41	10-25%
CAS: 111-30-8 EINECS: 203-856-5	glutaral T,  C,  N; R 23/25-34-42/43-50	10-25%
CAS: 85711-69-9 EINECS: 288-330-3	anionic surfactant Xn,  Xi; R 22-38-41	5-10%
CAS: 107-21-1 EINECS: 203-473-3	ethane-1,2-diol Xn; R 22	1-5%
CAS: 5395-50-6 EINECS: 226-408-0	Tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione Xi; R 43	1-5%
CAS: 111798-26-6	Alkylglykoetherphosphat Xi; R 36/38	1-5%

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CAS: 68439-50-9	fatty alcohol polyglycole ether ☒ Xn, ☒ Xi; R 22-41	1-5%
· <b>Regulation (EC) No 648/2004 on detergents / Labelling for contents</b>		
anionic surfactants		5 - 15%
non-ionic surfactants, EDTA and salts thereof		< 5%
disinfectants, Limonen, GERANIOL, CITRONELLOL, Butylphenyl Methylpropional		

· **Additional information**

Active ingredient: Tetramethylolacetylendiharnstoff (formaldehyde releaser).  
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** Supply fresh air.
- **After skin contact**  
Remove/Take off immediately all contaminated clothing.  
Wash with plenty of soap and water.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing**  
Rinse mouth.  
Do NOT induce vomiting.

### 5 Fire fighting measures

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **Protective equipment:** Wear self-contained breathing apparatus.

### 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).  
Dispose of contaminated material as waste according to item 13.

### 7 Handling and storage

- **Handling**
- **Information for safe handling:** Keep containers tightly sealed.
- **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:** None.

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### 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:**

**107-21-1 ethane-1,2-diol**

IOELV (European Union)	Short-term value: 104 mg/m <sup>3</sup> , 40 ppm Long-term value: 52 mg/m <sup>3</sup> , 20 ppm Skin
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· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

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

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:**

Natural rubber, NR

PVA gloves

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

### 9 Physical and chemical properties:

· **General Information**

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

· **Change in condition**

**Melting point/Melting range:** not determined

**Boiling point/Boiling range:** 100°C

**Setting temperature / range:** -14 - -20°C

· **Flash point:** 101°C

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

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

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· <b>Density at 20°C</b>	ca. 1,1 g/cm <sup>3</sup>
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· <b>Solubility in / Miscibility with Water:</b>	fully miscible
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· <b>pH-value (Konz. g/l) at 20°C:</b>	5-6
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### 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:** Small quantities of formaldehyde may be formed

### 11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

Oral	LD50	1650 mg/kg (Rat)
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- **Primary irritant effect:**

- **on the skin:** Irritant for 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:

- Harmful

- Irritant

- **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.

- 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	21 mg/l (Leuciscus idus) (OECD 203)
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- **Behaviour in sewage processing plants:**

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

EC10	7,6 mg/l (Pseudomonas putida) (DIN 38412 T8)
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- **Additional ecological information:** -

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### 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:**  
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
- **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).

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



Xn Harmful

- **Hazard-determining components of labelling:**  
glutaral
- **Risk 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.
- **Safety phrases:**  
23 Do not breathe fumes/aerosol.  
24 Avoid contact with skin.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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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).*

· **Information about limitation of use:**

*Employment restrictions concerning pregnant and lactating women must be observed.*

**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**

22 *Harmful if swallowed.*

23/25 *Toxic by inhalation and if swallowed.*

34 *Causes burns.*

36/38 *Irritating to eyes and skin.*

38 *Irritating to skin.*

41 *Risk of serious damage to eyes.*

42/43 *May cause sensitisation by inhalation and skin contact.*

43 *May cause sensitisation by skin contact.*

50 *Very toxic to aquatic organisms.*

· **\* Data compared to the previous version altered.**

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