

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 12.11.2010

Revision: 12.11.2010

1 Identification of substance:

· **Product details:**

· **Trade name:** **Korsolex® med AF**

· **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

N Dangerous for the environment

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

R 10 Flammable.

R 22 Harmful if swallowed.

R 34 Causes burns.

R 50 Very toxic to aquatic organisms.

· **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: 5538-95-4 EINECS: 226-902-6	N-Dodecylpropan-1,3-diamin C, Xn, N; R 22-35-50	10-25%
CAS: 67-63-0 EINECS: 200-661-7	isopropanol Xi, F; R 11-36-67	5-10%
CAS: 2372-82-9 EINECS: 219-145-8	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine C, Xn, N; R 22-35-50	1-5%
	nonionic surfactant Xn, Xi; R 22-41	1-5%
	CAS 69227-21-0 nonionic surfactant Xi, N; R 38-41-50	1-5%

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

non-ionic surfactants	5 - 15%
disinfectants, Limonen, CITRONELLOL	

· **Additional information**

For the wording of the listed risk phrases refer to section 16.

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CAS: 2372-82-9: carbonic acid salt

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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**
Remove/Take off immediately all contaminated clothing.
Wash with plenty of soap and water.
- **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:** Wear protective clothing.
- **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:** No special measures required.
- **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:**

64-19-7 acetic acid, of a concentration of more than

IOELV (European Union) 25 mg/m ³ , 10 ppm
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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**

The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.

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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 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

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

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

9 Physical and chemical properties:

· General Information

Form:	fluid
Colour:	Blue
Smell:	pleasant

· Change in condition

Melting point/Melting range: not determined

Boiling point/Boiling range: 100°C

· **Flash point:** 40°C

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

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

· **Density at 20°C** 0,99 g/cm³

· Solubility in / Miscibility with

Water: fully miscible

· **pH-value at 20°C:** 10

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.

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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:** 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:
Corrosive

12 Ecological information:

- **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
- **Special marking:** Symbol (fish and tree)

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· **Designation of goods:** 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (N-Dodecylpropan-1,3-diamin, isopropanol)

· **Maritime transport IMDG/GGVSea:**



· **IMDG/GGVSea Class:** 8
 · **UN Number:** 2920
 · **Label:** 8+3
 · **Packaging group:** II
 · **EMS Number:** F-E,S-C
 · **Marine pollutant:** Yes
 Symbol (fish and tree)
 · **Segregation groups:** Alkalis
 · **Correct technical name:** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (N-Dodecylpropan-1,3-diamin, isopropanol)

· **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. (N-Dodecylpropan-1,3-diamin, isopropanol)
 · **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
 N Dangerous for the environment

· **Hazard-determining components of labelling:**

N-Dodecylpropan-1,3-diamin
 N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

· **Risk phrases:**

10 Flammable.
 22 Harmful if swallowed.
 34 Causes burns.
 50 Very toxic to aquatic organisms.

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· Safety phrases:

- 26 *In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*
- 28 *After contact with skin, wash immediately with plenty of water.*
- 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).*
- 61 *Avoid release to the environment. Refer to special instructions/safety data sheets.*

· 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.*
- 22 *Harmful if swallowed.*
- 35 *Causes severe burns.*
- 36 *Irritating to eyes.*
- 38 *Irritating to skin.*
- 41 *Risk of serious damage to eyes.*
- 50 *Very toxic to aquatic organisms.*
- 67 *Vapours may cause drowsiness and dizziness.*

· * Data compared to the previous version altered.

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