

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® AF

· **SAP-Code:** EN R10035

· **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 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: 94-96-2 EINECS: 202-377-9 | 2-ethylhexane-1,3-diol Xi; R 41 | 10-25% |
| CAS: 2372-82-9 EINECS: 219-145-8 | N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine C, Xn, N; R 22-35-50 | 5-10% |
| | 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 | |

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- **Additional information**
For the wording of the listed risk phrases refer to section 16.
- CAS: 2372-82-9: carbonic acid salt

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:**
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.

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- **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 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:** > 65°C

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

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

· **Density at 20°C** 1,02 g/cm³

· Solubility in / Miscibility with

Water: fully miscible

· **pH-value (Konz. g/l) at 20°C:** ca. 9,5

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.

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· **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:** 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
Harmful

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 | 1-50 mg/l (Fisch / fish) (Schätzwert / estimated value) |
|------|---|

- **Behaviour in sewage processing plants:**

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

| | |
|------|--|
| EC20 | 100 mg/l (Belebtschlamm / activated sludge) (OECD 209) |
|------|--|

| | |
|------|--|
| EC50 | 190 mg/l (Belebtschlamm / activated sludge) (OECD 209) |
|------|--|

- **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.

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14 Transport information

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



- **ADR/RID-GGVS/E Class:** 8 (C7) Corrosive substances.
- **Kemler Number:** 80
- **UN-Number:** 3267
- **Packaging group:** III
- **Label:** 8
- **Special marking:** Symbol (fish and tree)
- **Designation of goods:** 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-Dodecylpropan-1,3-diamin)

· Maritime transport IMDG/GGVSea:



- **IMDG/GGVSea Class:** 8
- **UN Number:** 3267
- **Label:** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Marine pollutant:** Yes
- **Segregation groups:** Alkalis
- **Correct technical name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-Dodecylpropan-1,3-diamin)

· Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 3267
- **Label:** 8
- **Packaging group:** III
- **Correct technical name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-Dodecylpropan-1,3-diamin)
- **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).

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· **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:**

22 Harmful if swallowed.

34 Causes burns.

50 Very toxic to aquatic organisms.

· **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**

22 Harmful if swallowed.

35 Causes severe burns.

38 Irritating to skin.

41 Risk of serious damage to eyes.

50 Very toxic to aquatic organisms.

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