

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 17.06.2009

Revision: 17.06.2009

1 Identification of substance:

· **Product details:**

· **Trade name:** Kohrsolin® FF

· **SAP-Code:** EN R10494

· **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

N Dangerous for the environment

· **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.

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: 111-30-8 EINECS: 203-856-5	glutaral T, C, N; R 23/25-34-42/43-50	5-10%
	nonionic surfactant Xn, Xi; R 22-41	1-5%
CAS: 68391-01-5 EINECS: 269-919-4	Benzyl-C12-18-alkyldimethylammoniumchlorides C, Xn, N; R 22-34-50	1-5%
CAS: 7173-51-5 EINECS: 230-525-2	didecyldimethylammoniumchloride C, Xn; R 22-34	1-5%
CAS: 67-63-0 EINECS: 200-661-7	isopropanol Xi, F; R 11-36-67	1-5%

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

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

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

4 First aid measures

- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation** Supply fresh air and call for doctor for safety reasons.
- **After skin contact**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact**
Rinse opened eye for several minutes under running water.
Call a doctor immediately.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Call a doctor immediately.

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:**
Do not inhale explosion gases or combustion gases.
Put on breathing apparatus.

6 Accidental release measures

- **Person-related safety precautions:** 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).

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Keep containers tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
- **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.
Protect from frost.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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- **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**
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 trough 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

Form:	fluid
Colour:	yellowish
Smell:	Characteristic

· Change in condition

Melting point/Melting range: not determined
Boiling point/Boiling range: not determined

· **Flash point:** 71°C

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

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

· **Density at 20°C** 1,01 g/cm³

· Solubility in / Miscibility with

Water: soluble

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· pH-value (Konz. g/l) at 20°C: 3

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **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:** 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:**
 - Harmful
 - Irritant
 - 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:
- **Sensitisation** May cause sensitisation by inhalation and skin contact.

12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:**
 - The product is 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.
- **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.
- **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:** 9 (M6) Miscellaneous dangerous substances and articles.
- **Kemler Number:** 90
- **UN-Number:** 3082
- **Packaging group:** III
- **Label:** 9
- **Special marking:** Symbol (fish and tree)
- **Designation of goods:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (glutaral, benzododecinium chloride)

· Maritime transport IMDG/GGVSea:



- **IMDG/GGVSea Class:** 9
- **UN Number:** 3082
- **Label:** 9
- **Packaging group:** III
- **EMS Number:** F-A,S-F
- **Marine pollutant:** Yes
- **Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (glutaral, benzododecinium chloride)

· Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 9
- **UN/ID Number:** 3082
- **Label:** 9
- **Special marking:** Symbol (fish and tree)
- **Packaging group:** III
- **Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (glutaral, benzododecinium chloride)

· **Environmental hazards:**

Product contains environmentally hazardous substances: benzododecinium chloride, glutaral

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:



Xn Harmful
N Dangerous for the environment

· Hazard-determining components of labelling:

glutaral
Benzyl-C12-18-alkyldimethylammoniumchlorides
didecyldimethylammoniumchloride

· 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.
50 Very toxic to aquatic organisms.

· 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.
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).
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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.
23/25 Toxic by inhalation and if swallowed.
34 Causes burns.
36 Irritating to eyes.
41 Risk of serious damage to eyes.
42/43 May cause sensitisation by inhalation and skin contact.
50 Very toxic to aquatic organisms.
67 Vapours may cause drowsiness and dizziness.

· * Data compared to the previous version altered.