

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : Cutasept F

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the Substance/Mixture : In-door use  
For further information, refer to the product technical data sheet.

Recommended restrictions on use : Medicinal products, Biocides

**1.3 Details of the supplier of the safety data sheet**

Manufacturer, importer, supplier : BODE Chemie GmbH  
Melanchthonstraße 27  
22525 Hamburg  
Tel.: +49 (0)40 / 54 00 60

Responsible Department : Scientific Affairs  
KundenService-SiDa@bode-chemie.de

**1.4 Emergency telephone number**

Emergency telephone number : Giftnotruf Göttingen  
24h-Phone +49 (0)551 / 1 92 40

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids , Category 2 H225: Highly flammable liquid and vapour.  
Eye irritation , Category 2 H319: Causes serious eye irritation.  
Specific target organ toxicity - single exposure , Category 3, Central nervous system H336: May cause drowsiness or dizziness.

**Classification (67/548/EEC, 1999/45/EC)**

Flammable R10: Flammable.  
Irritant R36: Irritating to eyes.  
R67: Vapours may cause drowsiness and dizziness.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :  

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

|                          |   |  |  |
|--------------------------|---|--|--|
| Precautionary statements | : | P102<br>P210                           | Keep out of reach of children.<br>Keep away from heat/sparks/open flames/hot surfaces. - No smoking.                             |
|                          |   | <b>Response:</b><br>P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
|                          |   | P337 + P313                            | If eye irritation persists: Get medical advice/attention.  |
|                          |   | P301 + P310                            | IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.   |
|                          |   | <b>Disposal:</b><br>P501               | Dispose of contents/ container to an approved waste disposal plant.  |

Hazardous components which must be listed on the label:

Propan-2-ol (CAS: 67-63-0)

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

| Chemical Name   | CAS-No.<br>EC-No.<br>Registration number | Classification<br>(67/548/EEC) | Classification<br>(REGULATION (EC)<br>No 1272/2008)                | Concentration<br>[%] |
|---|--|--------------------------------|--|----------------------|
| Propan-2-ol   | 67-63-0<br>200-661-7<br>01-2119457558-25 | F; R11<br>Xi; R36<br>R67       | Flam. Liq.2; H225<br>Eye Irrit.2; H319<br>STOT SE3; H336           | >= 50 - <= 100       |
| Propan-2-ol   | 67-63-0<br>200-661-7<br>01-2119457558-25 | F; R11<br>Xi; R36<br>R67       | Flam. Liq.2; H225<br>Eye Irrit.2; H319<br>STOT SE3; H336           | >= 50 - < 70         |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | 68424-85-1<br>270-325-2                  | C; R34<br>R22<br>N; R50        | Acute Tox.4; H302<br>Skin Corr.1B; H314<br>Aquatic Acute1;<br>H400 | < 0,1                |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                |   |  |
|----------------|---|--|
| General advice | : | If you feel unwell, seek medical advice (show the label where possible). |
| If inhaled     | : | If breathed in, move person into fresh air.                              |

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In case of eye contact : Immediately flush eye(s) with plenty of water.

If swallowed : Rinse mouth.  
Do NOT induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed**

no data available

**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment : For specialist advice physicians should contact the Poisons Information Service.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.  
Unsuitable extinguishing media : none

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire-fighting : Cool closed containers exposed to fire with water spray.  
Hazardous combustion products : No hazardous combustion products are known

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Use personal protective equipment.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Ensure adequate ventilation.

**6.2 Environmental precautions**

Environmental precautions : Should not be released into the environment.

**6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).

**6.4 Reference to other sections**

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Keep away from heat.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container. Keep tightly closed.

Advice on common storage : Keep away from food and drink.

Storage temperature : -5 - 40 °C

Other data : The product is chemically stable.

### 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Propan-2-ol : End Use: Workers  
 Exposure routes: Skin contact  
 Potential health effects: Chronic effects  
 Value: 888 mg/kg  
 End Use: Workers  
 Exposure routes: Inhalation  
 Potential health effects: Chronic effects  
 Value: 500 mg/m<sup>3</sup>  
 End Use: Consumers  
 Exposure routes: Skin contact  
 Potential health effects: Chronic effects  
 Value: 319 mg/kg  
 End Use: Consumers  
 Exposure routes: Inhalation  
 Potential health effects: Chronic effects  
 Value: 89 mg/m<sup>3</sup>  
 End Use: Consumers  
 Exposure routes: Ingestion  
 Potential health effects: Chronic effects  
 Value: 26 mg/kg

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Exposure routes: Inhalation  
Potential health effects: Chronic effects  
Value: 89 mg/m<sup>3</sup>  
End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Chronic effects  
Value: 26 mg/kg

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Propan-2-ol : Fresh water  
Value: 140,9 mg/l

Marine water  
Value: 140,9 mg/l

Fresh water sediment  
Value: 552 mg/kg

Marine sediment  
Value: 552 mg/kg

Soil  
Value: 28 mg/kg

Propan-2-ol : Fresh water  
Value: 140,9 mg/l

Marine water  
Value: 140,9 mg/l

Fresh water sediment  
Value: 552 mg/kg

Marine sediment  
Value: 552 mg/kg

Soil  
Value: 28 mg/kg

**8.2 Exposure controls****Personal protective equipment**

Protective measures : No special protective equipment required.

**Environmental exposure controls**

General advice : Should not be released into the environment.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance : liquid

Colour : colourless

Odour : pleasant

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pH : not determined  
Melting point/range : not determined  
Boiling point/boiling range : not determined  
Flash point : 21 °C  
Method: DIN 51755 Part 1

Vapour pressure : 16 kPa (50 °C)

Density : 0,87 g/cm<sup>3</sup> (20 °C)

Solubility(ies)

Water solubility : completely miscible

**9.2 Other information**

no data available

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

The product is chemically stable.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : None reasonably foreseeable.

**10.4 Conditions to avoid**

Conditions to avoid : Heat.  
Strong sunlight for prolonged periods.

**10.5 Incompatible materials**

Materials to avoid : None.

**10.6 Hazardous decomposition products**

Hazardous decomposition products : No decomposition if used as directed.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Product:****Acute toxicity**

Acute oral toxicity : LD50 Oral rat: > 13.000 mg/kg  
Method: Calculation method

**Skin corrosion/irritation**

Result: No skin irritation

**Serious eye damage/eye irritation**

Species: rabbit  
Result: Mild eye irritation  
Method: OECD Test Guideline 405  
GLP: yes

**Respiratory or skin sensitisation**

Species: guinea pig  
Result: Does not cause skin sensitisation.  
Method: OECD Test Guideline 406

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**STOT - single exposure**

no data available

**STOT - repeated exposure**

no data available

**Aspiration toxicity**

no data available

**Components:****Acute toxicity****Propan-2-ol (CAS: 67-63-0):**

Acute oral toxicity : LD50 Oral rat: > 2.000 mg/kg

Acute inhalation toxicity : LC50 rat: > 20 mg/l  
Exposure time: 8 h

Acute dermal toxicity : LD50 Dermal rabbit: > 2.000 mg/kg

**Propan-2-ol (CAS: 67-63-0):**

Acute oral toxicity : LD50 Oral rat: > 2.000 mg/kg

Acute inhalation toxicity : LC50 rat: > 20 mg/l  
Exposure time: 8 h

Acute dermal toxicity : LD50 Dermal rabbit: > 2.000 mg/kg

**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (CAS: 68424-85-1):**

Acute oral toxicity : LD50 Oral rat: 344 mg/kg

Acute dermal toxicity : LD50 Dermal rabbit: 3.340 mg/kg

**Skin corrosion/irritation****Propan-2-ol (CAS: 67-63-0):**

Species: rabbit

Result: No skin irritation

**Propan-2-ol (CAS: 67-63-0):**

Species: rabbit

Result: No skin irritation

**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (CAS: 68424-85-1):**

Result: Corrosive

**Serious eye damage/eye irritation****Propan-2-ol (CAS: 67-63-0):**

Species: rabbit

Result: Eye irritation

**Propan-2-ol (CAS: 67-63-0):**

Species: rabbit

Result: Eye irritation

**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (CAS: 68424-85-1):**

Result: Corrosive

**Respiratory or skin sensitisation****Propan-2-ol (CAS: 67-63-0):**

Test Method: Buehler Test

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

**Propan-2-ol (CAS: 67-63-0):**

Test Method: Buehler Test

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (CAS: 68424-85-1):**

Species: guinea pig

Result: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

**Germ cell mutagenicity****Propan-2-ol (CAS: 67-63-0):**

Genotoxicity in vitro

: Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

**Propan-2-ol (CAS: 67-63-0):**



Genotoxicity in vitro : Type: Ames test  
 Metabolic activation: with and without metabolic activation  
 Result: negative

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : LC50 (Fish): > 100 mg/l  
 Remarks: The data is estimated based on the component aquatic toxicity classification.

#### Components:

##### **Propan-2-ol (CAS: 67-63-0):**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l  
 Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
 Exposure time: 48 h

Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)): > 100 mg/l  
 Exposure time: 72 h

##### **Propan-2-ol (CAS: 67-63-0):**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l  
 Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
 Exposure time: 48 h

Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)): > 100 mg/l  
 Exposure time: 72 h

##### **Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (CAS: 68424-85-1):**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,28 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,016 mg/l  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata): 0,049 mg/l  
 Exposure time: 72 h  
 Test Type: Cell multiplication inhibition test  
 Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10  
 Toxicity to fish (Chronic toxicity) : NOEC: 0,032 mg/l  
 Exposure time: 34 d  
 Species: Leuciscus idus (Golden orfe)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0042 mg/l  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 1

**12.2 Persistence and degradability****Product:**

Biodegradability : Remarks: According to the results of tests of biodegradability this product is considered as being readily biodegradable.

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment****Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

no data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product : Dispose of as hazardous waste in compliance with local and national regulations.  
The following Waste Codes are only suggestions:

Waste Code EU : 070601\* aqueous washing liquids and mother liquors

Contaminated packaging : Empty remaining contents.  
Store containers and offer for recycling of material when in accordance with the local regulations.

**SECTION 14: Transport information****14.1 UN number**

ADR : UN 1219  
IMDG : UN 1219  
IATA : UN 1219

**14.2 UN proper shipping name**

ADR : ISOPROPANOL, SOLUTION  
IMDG : ISOPROPANOL, SOLUTION  
IATA : ISOPROPANOL, SOLUTION

**14.3 Transport hazard class**

ADR : 3  
IMDG : 3  
IATA : 3

**14.4 Packaging group****ADR**

Packaging group : II  
 Classification Code : F1  
 Hazard Identification Number : 33  
 Labels : 3  
 Tunnel restriction code : D/E

**IMDG**

Packaging group : II  
 Labels : 3  
 EmS Number : F-E, S-D

**IATA**

Packaging group : II  
 Labels : 3

**14.5 Environmental hazards****ADR**

Environmentally hazardous : no

**IMDG**

Marine pollutant : no

**IATA**

Environmentally hazardous : no

**14.6 Special precautions for user**

not applicable

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : not applicable

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

|   |            | Quantity1 | Quantity2 |
|---|------------|-----------|-----------|
| 6 | Flammable. | 5.000 t   | 50.000 t  |

Volatile organic compounds : Directive 1999/13/EC  
 63 %  
 VOC content excluding water

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

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**SECTION 16: Other information****Full text of R-Phrases**

|     |   |
|-----|---|
| R11 | Highly flammable.                           |
| R22 | Harmful if swallowed.                       |
| R34 | Causes burns.                               |
| R36 | Irritating to eyes.                         |
| R50 | Very toxic to aquatic organisms.            |
| R67 | Vapours may cause drowsiness and dizziness. |

**Full text of H-Statements**

|      |  |
|------|--|
| H225 | Highly flammable liquid and vapour.      |
| H302 | Harmful if swallowed.                    |
| H314 | Causes severe skin burns and eye damage. |
| H319 | Causes serious eye irritation.           |
| H336 | May cause drowsiness or dizziness.       |
| H400 | Very toxic to aquatic life.              |

**Full text of other abbreviations**

|               |  |
|---------------|--|
| Acute Tox.    | Acute toxicity                                   |
| Aquatic Acute | Acute aquatic toxicity                           |
| Eye Irrit.    | Eye irritation                                   |
| Flam. Liq.    | Flammable liquids                                |
| Skin Corr.    | Skin corrosion                                   |
| STOT SE       | Specific target organ toxicity - single exposure |

**Safety datasheet sections which have been updated:**

2. Hazards identification

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.