

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006

Product name : B 30 Quick-Acting Disinfectant  
Revision : 12.01.2010      Version : 4.0.0  
Print date : 12.01.2010

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## 01. Identification of the substance/preparation and of the company/undertaking

**Product name :** oro<sup>®</sup> Hygienesystem B 30 Quick-Acting Disinfectant  
**Use of the substance / preparation :** B 30 is an aldehyde-free ready-to-use solution for fast-acting alcoholic spray and wipe disinfection as well as for cleaning the surfaces of medical devices, particularly in poorly accessible areas.  
**Manufacturer/Supplier :** orochemie GmbH + Co. KG  
**Street/P.O.Box :** Max-Planck-Straße 27  
**Country code/Postal code/Town/City :** 70806 Kornwestheim  
**Telephone :** +49 7154 1308-0  
**Telefax :** +49 7154 1308-40  
**Emergency information :** +49 7154 1308-0

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## 02. Hazards identification

### Hazard designation

Flammable. · Irritating to eyes.  
Classification : R 10 · Xi ; R 36

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## 03. Composition/information on ingredients

### Chemical characterization

B 30 contains alcohols, quaternary ammonium compounds and auxiliary agents in aqueous solution.

### Hazardous components

ETHANOL ; EC-No. : 200-578-6; CAS-No. : 64-17-5

Percentage : 60 - 65 %

Classification : F ; R 11

DIDECYLDIMETHYLAMMONIUM CHLORIDE ; EC-No. : 230-525-2; CAS-No. : 7173-51-5

Percentage : < 0,1 %

Classification : C ; R 34 Xn ; R 22

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

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## 04. First-aid measures

### General

No particular measures required.

### After inhalation

Let in fresh air. Call a doctor, should the air passages be affected.

### After skin contact

Flush with water.

### After eye contact

Flush with plenty of water (10 - 15 min.). Contact a doctor immediately.

### After ingestion

Drink plenty of water. Do not induce vomiting. Contact a doctor immediately.

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## 05. Fire-fighting measures

### Suitable extinguishing media

Carbon dioxide. Extinguishing powder. Water haze.

### Unsuitable extinguishing media

Waterjet.

### Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

None known.

### Special protective equipment

When extinguishing fires, use breathing apparatus with an independent source of air.

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### Additional information

Cool endangered containers with water in case of fire.

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## 06. Accidental release measures

### Personal precautions

Wear suitable protective clothing, gloves and eye/face protection. Keep away from ignition sources - No smoking.

### Environmental precautions

Prevent from flowing into surface water/ground water.

### Methods for cleaning up/collecting

Take up with a liquid absorbing material and proceed according to the waste disposal regulations.

### Additional information

Remove according to regulations.

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## 07. Handling and storage

### Information for safe handling

Containers to be opened and handled with care. Keep away from ignition sources and provide for good ventilation.

### Information about protection against explosions and fires

Keep away from ignition sources - No smoking.

### Requirements to be met by storerooms and containers

Keep only in the original container. Keep in a cool place. Do not store in temperatures below 5 °C. Keep container tightly closed.

### Information about separation of incompatible products

Store the foodstuffs separately. Do not store together with oxidizing, self-igniting substances and highly flammable solid substances.

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## 08. Exposure controls/personal protection

### Additional information about engineering measures

No particular measures required.

### Components with critical values that require monitoring at the workplace (exposure limits)

ETHANOL ; CAS-No. : 64-17-5

Specification : Limit value (8 hours) ( GB )  
Value : 1000 ppm / 1920 mg/m<sup>3</sup>

Specification : Limit value (8 hours) ( GLOB )  
Value : 500 ppm / 960 mg/m<sup>3</sup>

### Personal protective equipment

Do not eat or drink during work - no smoking. Keep away from food, drink and animal feeding stuff. Avoid contact with skin and eyes.

### Respiratory protection

No particular measures required.

### Hand protection

No particular measures required.

### Eye protection

No particular measures required.

### Body protection

No particular measures required.

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## 09. Physical and chemical properties

### Image

Form : Liquid.  
Colour : Colourless.  
Odour : Like lemon. Like alcohol.

### Relevant safety data

Melting point / range : ( 1013 hPa )      no data available  
Boiling point / range : ( 1013 hPa )      ca.      70 - 100 °C

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Flash point :	22 °C	DIN 51755
Ignition temperature :	425 °C	
Lower explosion limit :	3,5 % b.v.	
Upper explosion limit :	15 % b.v.	
Vapour pressure :	( 50 °C )      ca.      190 hPa	
Density :	( 20 °C )      0,87 - 0,91 g/cm <sup>3</sup>	
Solvent-separation test :	( 20 °C )      <      3 %	
Solubility in water :	( 20 °C )      100 % b.w.	
pH value :	6,5 - 7,5	
Flow time :	( 20 °C )      <      12 s	DIN-cup 4 mm

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### 10. Stability and reactivity

#### Conditions to avoid

None, if handled according to order.

#### Materials to avoid

None known.

#### Hazardous decomposition products

None known.

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### 11. Toxicological information

#### Toxicological tests

##### LD50/LC50 values that are relevant for classification

Specification : LD-50  
Routes of entry : oral  
Test species : Rat  
Value / dosage : > 2000 mg/kg

Testing method : OECD 423.

##### Primary irritant effect

Rabbit skin: no irritation. Testing method : OECD 404. Rabbit eye: irritant. Testing method : OECD 405.

##### Sensitization

Guinea-pig: non-sensitizing. Testing method : OECD 406.

#### Experience on practice

Eye contact: irritation. The product does not have any skin irritating or sensitizing properties. There is no inhalation risk under normal application conditions.

#### Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC) as well as to our own test reports.

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### 12. Ecological information

#### Details on elimination (persistence / degradability)

##### Abiotoxic elimination

No data available.

##### Biological degradation / elimination

All active agents are biodegradable at the dilution rates arising in the sewage system.

#### Fate in environmental compartments

There are no data available on the preparation itself.

#### Ecotoxicological effects

##### Performance in sewage-treatment plants

In case of appropriate conduction into adapted biological purification plants no disturbances have to be expected.

##### Other information

Ethanol: fish toxicity LC50 > 1000 mg/l (Leuciscus idus, 48 h); harmfulness limit for small crustaceans EC50 > 100 mg/l (Daphnia magna, 48 h).

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### 13. Disposal considerations

#### Product

Concentrate/larger quantities: EWC 07 06 99 Waste, n.o.s. (disinfectant). Disposal in conformity with authority regulations.

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## Contaminated packaging

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

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## 14. Transport information

### Land transport ADR/RID

#### Classification

Class : 3      Kemlercode : 33  
UN number : 1170      Classification-Code : F1

LQ 4 · E 2 · Tunnel restriction code : D/E

Proper shipping name  
ETHANOL, SOLUTION

#### Packaging

Packaging group : II  
Label : 3

### Maritime transport IMDG/GGVSea

#### Classification

IMDG-Code : 3      EmS number : F-E / S-D  
UN number : 1170

LQ 1 I · E 2

Proper shipping name  
ETHANOL, SOLUTION

#### Packaging

Packaging group : II  
Label : 3

### Air transport ICAO-TI and IATA-DGR

#### Classification

Class : 3  
UN number : 1170

E 2

Proper shipping name  
ETHANOL, SOLUTION

#### Packaging

Packaging group : II  
Label : 3

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## 15. Regulatory information

### Classification according to EC directives

#### Danger symbol and danger designation



Xi ; Irritant

#### R-phrases

10      Flammable.  
36      Irritating to eyes.

#### S-phrases

26      In case of contact with eyes, rinse immediately with plenty of water and seek medical advice .  
16      Keep away from sources of ignition - No smoking.

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## 16. Other information

### Processing instructions / technical data sheets

Please observe the label/directions for use!

### Further information

#### Relevant changes

08. Components with critical values that require monitoring at the workplace (exposure limits) · 14. Classification (ADR) · 14.

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Classification (IMDG) · 14. Classification (ICAO)

### R-Phrases of components

11                      Highly flammable.  
22                      Harmful if swallowed.  
34                      Causes burns.

### Contact

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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.

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