

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006

Product name : B 20 Wipe 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 20 Wipe Disinfectant  
**Use of the substance / preparation :** B 20 is an aldehyde-free concentrate for simultaneously disinfecting and cleaning all washable surfaces and objects (floors, walls, fixtures, devices).  
**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

Very toxic to aquatic organisms. - Risk of serious damage to eyes. - Irritating to skin.  
Classification : N ; R 50 - Xi ; R 41 - Xi ; R 38

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## 03. Composition/information on ingredients

### Chemical characterization

B 20 contains quaternary ammonium compounds, non-ionic surfactants, alkaline cleaning agents, complexing agents and auxiliary agents in aqueous solution.

### Hazardous components

ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; EC-No. : 270-325-2; CAS-No. : 68424-85-1

Percentage : 5 - 10 %  
Classification : N ; R 50 C ; R 34 Xn ; R 22

FATTY ALCOHOL POLYGLYCOL ETHER ; CAS-No. : 26183-52-8

Percentage : 1 - 5 %  
Classification : Xi ; R 41

SODIUM ETHYLENEDIAMINETETRAACETATE ; EC-No. : 200-573-9; CAS-No. : 64-02-8

Percentage : 1 - 5 %  
Classification : Xi ; R 41 Xn ; R 22

TRISODIUM NITRILOTRIACETATE ; EC-No. : 225-768-6; CAS-No. : 5064-31-3

Percentage : 1 - 5 %  
Classification : Xn ; R 22 Xi ; R 36

FATTY ALCOHOL POLYGLYCOL ETHER ; CAS-No. : 97043-91-9

Percentage : 1 - 5 %  
Classification : Xi ; R 41 Xn ; R 22

FATTY ACID AMIDOALKYLDIMETHYLAMINOXIDE ; CAS-No. : 68155-09-9

Percentage : 1 - 2,5 %  
Classification : N ; R 51/53 Xi ; R 41 Xi ; R 38

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

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## 04. First-aid measures

### General

Immediately remove all contaminated clothing.

### After inhalation

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

### After skin contact

Flush with plenty of water.

### After eye contact

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

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### 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. Not combustible under normal conditions. Adapt extinguishing measures to suit the environment.

### 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

Adapt protective equipment to surrounding fire.

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## 06. Accidental release measures

### Personal precautions

Wear suitable protective clothing, gloves and eye/face protection.

### 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.

### Information about protection against explosions and fires

No anti-explosion measures necessary.

### 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.

### Information about separation of incompatible products

Store the foodstuffs separately.

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## 08. Exposure controls/personal protection

### Additional information about engineering measures

No particular measures required.

### 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

Short-term exposure (Level 2: < 30 min): disposable gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.1 mm.

Long-term exposure (Level 6: < 480 min): protective gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.7 mm.

### Eye protection

Use tightly fitting safety glasses.

### Body protection

No particular measures required.

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### 09. Physical and chemical properties

#### Image

Form : Liquid.  
Colour : Colourless.  
Odour : Mild aromatic.

#### Relevant safety data

Melting point / range :	( 1013 hPa )	ca.	no data available	
Boiling point / range :	( 1013 hPa )		100	°C
Flash point :			not applicable	DIN 51755
Ignition temperature :			not applicable	
Lower explosion limit :			not applicable	
Upper explosion limit :			not applicable	
Density :	( 20 °C )		1,03 - 1,07	g/cm <sup>3</sup>
Solubility in water :	( 20 °C )		100	% b.w.
pH value :	( 20 °C / 20 g/l )		9 - 10	

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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 : ca. 5900 mg/kg

Testing method : OECD 401.

##### Primary irritant effect

No data available.

##### Sensitization

No data available.

#### Experience on practice

Skin and eye contact: frequent and long lasting contact may cause irritation.

#### 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).

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### 12. Ecological information

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

##### Abiotal 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

Quaternary ammonium compound: Fish toxicity LC50: 1 - 10 mg/l (96 h, Brachydanio rerio).

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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.

#### 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 :	9	Kemlercode :	90
UN number :	3082	Classification-Code :	M6

LQ 7 - E 1 - Tunnel restriction code : E

##### Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

##### Hazardous components

ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE

##### Packaging

Packaging group :	III
Label :	9 / N

#### Maritime transport IMDG/GGVSea

##### Classification

IMDG-Code :	9	EmS number :	F-A / S-F
UN number :	3082	Marine Poll. :	P

LQ 5 I - E 1

##### Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

##### Hazardous components

ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE

##### Packaging

Packaging group :	III
Label :	9 / N

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

##### Classification

Class :	9
UN number :	3082

E 1

##### Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

##### Hazardous components

ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE

##### Packaging

Packaging group :	III
Label :	9 / N

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### 15. Regulatory information

#### Classification according to EC directives

Danger symbol and danger designation



Xi ; Irritant

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N ; Dangerous for the environment

### R-phrases

50                      Very toxic to aquatic organisms.  
41                      Risk of serious damage to eyes.  
38                      Irritating to skin.

### S-phrases

61                      Avoid release to the environment. Refer to special instructions/Safety data sheets.  
37/39                  Wear suitable gloves and eye/face protection.  
26                      In case of contact with eyes, rinse immediately with plenty of water and seek medical advice .  
46                      If swallowed, seek medical advice immediately and show this container or label.  
28                      After contact with skin, wash immediately with plenty of water.

## National regulatory information

### Other regulations

Biozid-Registriernummer: N-21254 / N-17626

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## 16. Other information

### Processing instructions / technical data sheets

Please observe the label/directions for use!

### Further information

#### Relevant changes

03. Hazardous components · 14. Land transport ADR/RID and GGVS/GGVE · 14. Classification (ADR) · 14. Proper shipping name (ADR) · 14. Substance releasing the danger (ADR) · 14. Maritime transport IMDG/GGVSea · 14. Classification (IMDG) · 14. Proper shipping name (IMDG) · 14. Substance releasing the danger (IMDG) · 14. Air transport ICAO-TI and IATA-DGR · 14. Classification (ICAO) · 14. Proper shipping name (ICAO) · 14. Substance releasing the danger (ICAO) · 15. Danger symbol and danger designation · 15. R-phrases

#### R-Phrases of components

22                      Harmful if swallowed.  
34                      Causes burns.  
36                      Irritating to eyes.  
38                      Irritating to skin.  
41                      Risk of serious damage to eyes.  
50                      Very toxic to aquatic organisms.  
51/53                  Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 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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