

Material Safety Data Sheet

according to Regulation (EC) 1907/2006

Product name : B 45 Quick-Acting Disinfectant
Revision : 12.01.2010 Version : 2.0.0
Print date : 12.01.2010

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

Product name : oro[®] Hygienesystem B 45 Quick-Acting Disinfectant
Use of the substance / preparation : B 45 is an aldehyde-free working solution for the quick-acting, alcoholic spray and wipe disinfection and cleaning of the sensitive surfaces of medical 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

02. Hazards identification

Hazard designation

Risk of serious damage to eyes. - Vapours may cause drowsiness and dizziness.
Classification : Xi ; R 41 · R 67

03. Composition/information on ingredients

Chemical characterization

B 45 contains alcohols, quaternary ammonium compounds and auxiliary agents in aqueous solution.

Hazardous components

N-PROPANOL ; EC-No. : 200-746-9; CAS-No. : 71-23-8

Percentage : 15 - 20 %

Classification : F ; R 11 Xi ; R 41 R 67

DODECYLDIMETHYLBENZYLAMMONIUM CHLORIDE ; EC-No. : 287-089-1; CAS-No. : 85409-22-9

Percentage : < 0,5 %

Classification : N ; R 50 C ; R 34 Xn ; R 22

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

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.

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.

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.

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.

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)

N-PROPANOL ; CAS-No. : 71-23-8

Specification : Limit value (8 hours) (GB)
Value : 200 ppm / 500 mg/m³

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.

09. Physical and chemical properties

Image

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

Relevant safety data

Melting point / range : (1013 hPa) no data available
Boiling point / range : (1013 hPa) no data available

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Flash point :	33 °C	DIN 51755
Ignition temperature :	371 °C	
Lower explosion limit :	2,1 % b.v.	
Upper explosion limit :	1,5 % b.v.	
Density : (20 °C)	0,95 - 0,99 g/cm ³	
Solvent-separation test : (20 °C)	< 3 %	
Solubility in water : (20 °C)	100 % b.w.	
Flow time : (20 °C)	< 20 s	DIN-cup 4 mm

10. Stability and reactivity

Conditions to avoid

None, if handled according to order.

Materials to avoid

None known.

Hazardous decomposition products

None known.

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

Testing method : OECD 401. OECD 402.

Primary irritant effect

In vitro skin corrosion: irritant. Testing method : OECD 431.

Sensitization

No data available.

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).

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

1-Propanol: fish toxicity LC50 > 4000 mg/l (Leuciscus idus, 48 h); harmfulness limit for small crustaceans EC50 = 3642 mg/l (Daphnia magna, 48 h).

13. Disposal considerations

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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.

14. Transport information

Land transport ADR/RID

Classification

Class :	3	Kemlercode :	30
UN number :	1274	Classification-Code :	F1

LQ 7 - E 1 - Tunnel restriction code : D/E

Proper shipping name

N-PROPANOL

Packaging

Packaging group : III
Label : 3

Maritime transport IMDG/GGVSea

Classification

IMDG-Code :	3	EmS number :	F-E / S-D
UN number :	1274		

LQ 5 I - E 1

Proper shipping name

N-PROPANOL

Packaging

Packaging group : III
Label : 3

Air transport ICAO-TI and IATA-DGR

Classification

Class :	3
UN number :	1274

E 1

Proper shipping name

N-PROPANOL

Packaging

Packaging group : III
Label : 3

15. Regulatory information

Classification according to EC directives

Danger symbol and danger designation



Xi ; Irritant

R-phrases

41 Risk of serious damage to eyes.
67 Vapours may cause drowsiness and dizziness.

S-phrases

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 .
16 Keep away from sources of ignition - No smoking.
24/25 Avoid contact with skin and eyes.

16. Other information

Processing instructions / technical data sheets

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Please observe the label/directions for use!

Further information

Relevant changes

11. LD50/LC50 values that are relevant for classification - 11. Primary irritant effect

R-Phrases of components

11	Highly flammable.
22	Harmful if swallowed.
34	Causes burns.
41	Risk of serious damage to eyes.
50	Very toxic to aquatic organisms.
67	Vapours may cause drowsiness and dizziness.

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.
