

Material Safety Data Sheet

according to Regulation (EC) 1907/2006

Product name : D 10 Disinfectant for Suction Systems
Revision : 12.01.2010 Version : 4.0.0
Print date : 12.01.2010

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

Product name : oro[®] Hygienesystem D 10 Disinfectant for Suction Systems
Use of the substance / preparation : D 10 is a highly-effective aldehyde-free concentrate for simultaneously disinfecting, cleaning and caring for suction systems in clinics, surgeries (e.g. ear, nose and throat specialists) or nursing homes.
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. - Irritating to skin.
Classification : Xi ; R 41 - Xi ; R 38

03. Composition/information on ingredients

Chemical characterization

D 10 contains quaternary ammonium compounds, alkaline cleaning agents, complexing agents, special antifoaming agents and auxiliary agents in aqueous solution.

Hazardous components

DIOCTYL-DIMETHYL AMMONIUM CHLORIDE ; CAS-No. : 68424-95-3

Percentage : 1 - 5 %
Classification : R 10 N ; R 50 C ; R 34 Xn ; R 22

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

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

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

Percentage : 0,5 - 1 %
Classification : N ; R 50 C ; R 34 Xn ; R 22

POTASSIUM HYDROXIDE ; EC-No. : 215-181-3; CAS-No. : 1310-58-3

Percentage : 0,5 - 2 %
Classification : C ; R 35 Xn ; R 22

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

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.

After ingestion

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

05. Fire-fighting measures

Suitable extinguishing media

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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.

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.

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.

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.

09. Physical and chemical properties

Image

Form : Liquid.
Colour : Clear. Yellow.
Odour : Mild aromatic. Fresh.

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Relevant safety data

Melting point / range :	(1013 hPa)	no data available	
Boiling point / range :	(1013 hPa)	ca. 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)	1,07 - 1,11	g/cm ³
Solubility in water :	(20 °C)	100	% b.w.
pH value :	(20 °C / 20 g/l)	10 - 11	

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

Rabbit skin: non-irritant (2 % solution). Testing method : OECD 405.

Sensitization

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

Experience on practice

The product has an irritating effect on eyes and skin.

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.

12. Ecological information

Details on elimination (persistence / degradability)

Abiotoxic elimination

No data available.

Biological degradation / elimination

The product is easily biodegradable according to OECD criteria.

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.

13. Disposal considerations

Product

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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 : 8 Kemlercode : 80
UN number : 1719 Classification-Code : C5

LQ 7 · E 1 · Tunnel restriction code : E

Proper shipping name

CAUSTIC ALKALI LIQUID, N.O.S.

Hazardous components

DIOCTYL-DIMETHYL AMMONIUM CHLORIDE · POTASSIUM HYDROXIDE

Packaging

Packaging group : III
Label : 8

Maritime transport IMDG/GGVSea

Classification

IMDG-Code : 8 EmS number : F-A / S-B
UN number : 1719 Marine Poll. : -

LQ 5 I · E 1

Proper shipping name

CAUSTIC ALKALI LIQUID, N.O.S.

Hazardous components

DIOCTYL-DIMETHYL AMMONIUM CHLORIDE · POTASSIUM HYDROXIDE

Packaging

Packaging group : III
Label : 8

Air transport ICAO-TI and IATA-DGR

Classification

Class : 8 / -
UN number : 1719

E 1

Proper shipping name

CAUSTIC ALKALI LIQUID, N.O.S.

Hazardous components

DIOCTYL-DIMETHYL AMMONIUM CHLORIDE · POTASSIUM HYDROXIDE

Packaging

Packaging group : III
Label : 8

15. Regulatory information

Classification according to EC directives

Danger symbol and danger designation



Xi ; Irritant

R-phrases

41 Risk of serious damage to eyes.
38 Irritating to skin.

S-phrases

37/39 Wear suitable gloves and eye/face protection.
28 After contact with skin, wash immediately with plenty of water.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice .

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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. Hazard-determining components of labelling · 15. R-phrases · 15. S-phrases

R-Phrases of components

10	Flammable.
22	Harmful if swallowed.
34	Causes burns.
35	Causes severe burns.
41	Risk of serious damage to eyes.
50	Very toxic to aquatic organisms.

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.
