

Material Safety Data Sheet

according to Regulation (EC) 1907/2006

Product name : LMProColor Instrument disinfection
Revision : 24.03.2010 Version : 3.0.0
Print date : 24.03.2010

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

Product name : LMProColor Instrument disinfection
Use of the substance / preparation : LMProColor is an aldehyde-free concentrate for the disinfection and cleaning of general dental instruments.
Manufacturer/Supplier : LM-Instruments Oy
Street/P.O.Box : PL 88 (Norrbyn rantatie 8)
Country code/Postal code/Town/City : FIN-21601 Parainen, Finland
Telephone : +358/2 4546 400
Telefax : +358/2 4546 444
Emergency information : +358/2 4546 400

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

03. Composition/information on ingredients

Chemical characterization

ID 212 contains quaternary ammonium compounds, non-ionic surfactants, alkaline cleaning components, complexing 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 ETHOXYLATE ; CAS-No. : 68439-50-9

Percentage : 5 - 10 %
Classification : N ; R 50 Xi ; R 41 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

TRISODIUM PHOSPHATE-12 HYDRATE ; EC-No. : 231-509-8; CAS-No. : 10101-89-0

Percentage : 1 - 5 %
Classification : Xi ; R 36/38

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

Carbon dioxide. Extinguishing powder. Water haze. Not combustible under normal conditions. Adapt extinguishing measures to suit the environment.

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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 : Blue.
Odour : Mild aromatic.

Relevant safety data

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

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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)		1,03 - 1,07	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

Testing method : OECD 401.

Primary irritant effect

No data available.

Sensitization

No data available.

Carcinogenic and mutagenic effects, risks to reproduction

None known.

Experience on practice

Eye contact: irritation. Irritating to 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)

Abiotal elimination

No data available.

Biological degradation / elimination

The organic ingredients 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).

13. Disposal considerations

Product

Concentrate/larger quantities: EWC 18 01 06 (disinfectant). Disposal in conformity with authority regulations.

Contaminated packaging

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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 : 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 · FATTY ALCOHOL ETHOXYLATE

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 · FATTY ALCOHOL ETHOXYLATE

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 · FATTY ALCOHOL ETHOXYLATE

Packaging

Packaging group : III
Label : 9 / N

15. Regulatory information

Classification according to EC directives

Danger symbol and danger designation



Xi ; Irritant



N ; Dangerous for the environment

Hazard-determining components of labelling

ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS-No. : 68424-85-1

R-phrases

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

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38	Irritating to skin.
S-phrases	
57	Use appropriate container to avoid environmental contamination.
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 .

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.
36/38	Irritating to eyes and skin.
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.
