

EC-Safety data sheet according to 91/155/EEC

Trade name: **SteriCleaner**

Revised at: 12.09.2003

Print date: 12.09.2003

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

Trade name: **KDM Biocleaner**

Recommended use: Solution ready for use for cleaning of sterilizing chambers, instrument trays and steel surfaces.

Effect of the preparation: Cleansing agent

Manufacturer:

ESPECIALIDADES DENTALES KALMA, S.A.

Camino de Hormigueras n° 118 Pta. 3° y 4°. 28031 Madrid

Tel. 380 23 83 (10 líneas) - Fax 778 48 64

Technical contact point:

Emergency phone:

2. Composition/information on ingredients

Chemical characterization: Mixture of substances listed below with nonhazardous additions in aqueous solution.

<i>Hazardous ingredients</i>	<i>CAS-No.</i>	<i>Weight-%</i>	<i>Code letter</i>	<i>R-phrases*</i>
Isopropanol	67-63-0	15-30%	F, Xi	11, 36, 67

*Full text of R-phrases: see under section 16

3. Hazards identification

R10 Flammable

R67 Vapours may cause drowsiness and dizziness

4. First-aid measures

General information: Note precautions for self-protection.

On inhalation: Move affected person into fresh air and keep still and warm. In case of irritation of the airways, seek medical advice.

On contact with skin: Wash off immediately with soap and water. In case of skin reactions, seek medical advice.

On contact with the eyes: Rinse the eyes with water with the eyelids open for a sufficient length of time, then seek ophthalmological advice immediately.

If swallowed: Rinse out mouth and then drink plenty of water. Do not induce vomiting. Seek medical advice.

Information for the doctor: First aid, decontamination, symptomatic treatment.

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5. Fire-fighting measures

Suitable extinguishing media:	Water, foam, dry fire-extinguishing media, carbon dioxide
Extinguishing media which must not be used for safety reasons:	None known
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:	None known
Special protective equipment for firefighting:	Not necessary
Additional information:	Cool endangered containers with water spray jet and if possible remove off fire area.

6. Accidental release measures

Personal precautions:	Use personal protective clothing. Keep away sources of ignition. High risk of slipping due to leakage/spillage of product. Ensure adequate ventilation.
Environmental precautions:	Contain spillage with absorbing material, e.g. with sand.
Methods for cleaning up/taking up:	Treat recovered material as prescribed in: Disposal considerations.

7. Handling and storage

Hints for safe handling:	Avoid contact with skin and eyes. Keep away from sources of ignition – No smoking.
Hints for protection against fire and explosion:	Product is flammable.
Further informations:	Not necessary
Requirements for storage rooms and vessels:	Keep tightly closed and store only in original container. Keep container in a cool, well ventilated place.
Hints on storage assembly:	Not necessary
Further informations on storage conditions:	Not necessary
Storage class:	LGK 3A flammable liquids

8. Exposure limitation and personal protective equipment

Constituents with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:

Maximum occupational exposure concentration; see TRGS 900 (German regulation)

Isopropanol	CAS-No.: 67-63-0	Air limit value: 200 ml/m ³ ; 500 mg/m ³
Overflow factors for short-term values:		Peak limitation-category 4

Biological occupational exposure limits; see TRGS 903 (German regulation)

Isopropanol	CAS-No.: 67-63-0	
Parameter: Acetone;	BAT-value: 50 mg/l;	Test material: whole blood resp. urine
Time of sampling:	end of exposition, resp. end of shift	

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General health and safety measures:

Do not eat, drink, smoke while working.
Wash hands before breaks and on finishing work.
Preventive skin protection using barrier ointment.
Keep away of foods and drinks.
Avoid contact with eyes, skin and clothing.
Avoid inhalation of aerosols and vapours.

Personal protection equipment:

Respiratory protection: Not necessary if handled cautiously.
Hand protection: E.g. natural rubber- or PVC-gloves are recommended.
Eye protection: Tightly sealed goggles are recommended.
Protective clothing: Not necessary if handled cautiously.

9. Physical and chemical properties

Form:	liquid	
Colour:	colourless, clear	
Odour:	alcoholic	
pH-value (undiluted):	9,5-10,5	(20°C)
Boiling point/Boiling range:	not relevant to safety	
Melting point/Melting range:	not relevant to safety	
Flash point (DIN, TRbF):	24°C	
Flammability (solid, gases):	not determinable	
Explosive properties:	existing	
Lower explosion limit:	1 Vol.-%	
Upper explosion limit:	12 Vol.-%	
Ignition temperature:	not necessary	
Oxidizing properties:	none	
Vapour pressure:	not necessary	at 20°C
Density:	0,965-0,975 g/cm ³	at 20°C
Bulk density:	not determinable	at ...°C
Solubility in water:	soluble	
in ethanol:	soluble	
in hexan:	not soluble	
Partition coefficient:	not necessary	(n-octanol/water)
Viscosity (sort):	not necessary	at ...°C
Electrical conductivity (undiluted):	1100-1200 µS/cm	(20°C)
Refractive index nD:	1,3515-1,3540	(20°C)
Optical rotation αD:	not necessary	

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10. Stability and reactivity

Conditions to avoid:	No hazardous decomposition products if stored and handled as prescribed.
Materials to avoid:	No hazardous reactions with other substances known.
Hazardous decomposition products:	No decomposition if used as prescribed.

11. Toxicological information

Acute toxicity:	No acute toxicity known.
Primary irritant effect on the skin:	No primary irritant effect on the skin known.
Primary irritant effect on the eye:	No primary irritant effect on the eye known.
Mutagenic potential:	No mutagenic potential known.
Sensitization:	No sensitizing effects known.

The product was classified on the basis of the calculation procedure of the preparation directive 1999/45/EC.

Based on manufacturer data of the main components the acute toxicity, the skin irritation, the mucous membrane irritation and the mutagenic potential of the preparation were evaluated. However, some data are not complete regarding particular main components. Nevertheless according to the experience of the manufacturer there are no other hazards expected than those which are already mentioned on the label.

12. Ecological information

Ecotoxicity:	Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.
Persistence and degradation:	Ingredients are biodegradable.
Other adverse effects:	No other adverse effects known.
Further information:	Do not allow product to reach ground water or waters and do not empty undiluted product into sewers.

13. Disposal considerations

Disposal of the product:

In the EC member states there are no standardized regulations for the disposal of chemicals. In Germany the law of the cycle of economy and waste (KrW/AbfG) prescribes the principle of utilization and therefore a distinction must be made between "waste for utilization" and "waste for removal". Furthermore special cases – particularly in case of delivery – are also regulated by the federal states. Please contact the corresponding office (authority or waste disposal company) who will inform you about the utilization or removal.

Waste code no.*: 07 06 04

Disposal of uncleaned as well as completely emptied packings:

Disposal according to official regulations. Contaminated packings are to be treated like the substance.

Waste code no.*: 15 01 10

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Further information:

If there is no official regulation, non-contaminated packings can be treated like domestic waste or can be recycled.

*Waste code no.: Waste incurred is classified following the code of the European waste register according to kind of waste and branch.

14. Transport information

Land transport ADR/RID and GGVSE

UN-No.: 1987

Class: 3

Packing Group: III

Proper Shipping Name:

ALCOHOLS, N.O.S. (Isopropanol)

Inland waterway craft ADN/ADNR

Not classified.

Marine transport IMDG/GGVSee

UN-No.: 1987

Class: 3

Packing Group: III

EmS-No.: 3-06

MFAG: 305

Proper Shipping Name:

ALCOHOLS, N.O.S. (Isopropanol)

Air transport ICAO-TI/IATA-DGR

UN-/ID-No.: 1987

Class: 3

Packing Group: III

Proper Shipping Name:

ALCOHOLS, N.O.S. (Isopropanol)

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15. Regulatory information

Labelling

Code letter:	-	
Hazard designation:	-	
contains:	-	
R-phrases:	R10 R67	Flammable. Vapours may cause drowsiness and dizziness.
S-phrases:	S7	Keep container tightly closed.

Special labelling of certain preparations (preparation directive 1999/45/EC annex V):

The R67 must be mentioned (see above)

National regulations (Germany)

Restrictions of occupation:	Juvenile in relation to § 22JArbSchG
Störfallverordnung:	-
Classification according to VbF:	Not subject to the VbF
Technische Anleitung Luft:	-
Water hazard class:	WGK 1 (slightly water hazardous); self-classification

16. Other information

Full text of R-phrases appearing in section 2:
(This is not the classification of the product SteriCleaner!)

R11	Highly flammable.
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness.

Further information:

This information is based on our present knowledge and describes the safety measures which are to be taken for this product. However, this shall not constitute a guarantee for any product features.

Marking of changes:

A backslash in the left hand margin indicates an amendment from the previous version.