

**Biodent Isolation K**

material No.		Version	<b>3.0 / GB</b>
specification	<b>142278</b>	Revision date	<b>04.03.2004</b>
VA-Nr		Print Date	<b>30.03.04</b>
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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product information**

Trade name	:	Biodent Isolation K
Company	:	DeguDent GmbH Postfach 1364 D-63403 Hanau
Telephone	:	+49 (0)6181/59-5767
Telefax	:	+49 (0)6181/59-5879
Emergency telephone number	:	+49 (0)180 / 23 24-555
Use of the Substance / Preparation	:	For dental use only.

**2. COMPOSITION/INFORMATION ON INGREDIENTS****Information on ingredients / Hazardous components**

• <b>ethanol</b>		> 50%	
CAS-No.	64-17-5	EC-No.	200-578-6
	F; R11		
• <b>calcium chloride</b>		< 30%	
CAS-No.	10043-52-4	EC-No.	233-140-8
	Xi; R36		

See chapter 16 for text of risk phrases

**3. HAZARDS IDENTIFICATION**

Highly flammable.  
Vapours can form explosive mixtures with air.

**4. FIRST AID MEASURES****General advice**

Remove contaminated or saturated clothing immediately and dispose off safely.

**Inhalation**

Bring affected person outside and ensure that he/she is comfortable.  
Obtain medical attention.

**Skin contact**

Wash off with plenty of water.

**Eye contact**

With eye held open, thoroughly rinse immediately with plenty of water for at last 10 minutes.  
Consult an ophthalmologist.

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**Ingestion**

Call a physician immediately.

Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting.

Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs.

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**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

water spray, alcohol-resistant foam, CO<sub>2</sub>, dry powder

**Extinguishing media which must not be used for safety reasons**

high volume water jet

**Specific hazards during fire fighting**

Formation of flammable or explosive vapour/air mixtures possible.

In case of fire cool endangered containers with water.

**Special protective equipment for fire-fighters**

In the event of fire, wear self-contained breathing apparatus.

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Ensure adequate ventilation.

Keep away from sources of ignition - No smoking.

**Environmental precautions**

Do not allow entrance in soil, stretches of water, drainage systems.

**Methods for cleaning up**

Take up mechanically or with an absorbent material.

Fill into marked, sealable containers.

Suitable binder: universal absorbent

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**7. HANDLING AND STORAGE****Handling****Safe handling advice**

Provide good ventilation or extraction.

Avoid contact with skin and eyes.

**Advice on protection against fire and explosion**

Take precautionary measures against static charges, keep away from sources of ignition.

Do not smoke.

Explosion protection equipment required.

**Storage****Requirements for storage areas and containers**

Keep containers tightly closed in a cool, well-ventilated place.

Keep at temperatures of between 10 °C and 25 °C.

Storage classification according to VCI (D): 3 A

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Components with workplace control parameters**• **ethanol**

CAS-No.	64-17-5	EC-No.	200-578-6
Control parameters	1000 ppm 1920 mg/m <sup>3</sup>		Time Weighted Average (TWA): (EH40 OES)

**Engineering measures**

Provide good ventilation or extraction.

**Personal protective equipment****Respiratory protection**

If workplace exposure limit is exceeded apply Respirator with brown A-type filter.

**Hand protection**

Wear protective gloves made of the following materials: solvent-resistant material.

Glove material	butyl-rubber
Material thickness	0.5 mm
Break through time	480 min
Method	Source: GESTIS substance database (hazardous substance information system of commercial professional associations)
Glove material	Fluorinated rubber (FKM)
Material thickness	0.4 mm
Break through time	480 min
Method	Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

preventive skin protection

Use barrier cream regularly.

**Eye protection**

safety glasses with side-shields

**Hygiene measures**

Do not inhale vapours / aerosols.

Avoid contact with eyes.

Remove contaminated or saturated clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	liquid
Colour	colourless
Odour	characteristic

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**Safety data**

pH	ca. 7 (20 °C) neutral
Melting point/range	-117 °C related to substance: ethanol
Boiling point/range	78 °C (1013 hPa) related to substance: ethanol
Flash point	17 °C Method: DIN 51 755 related to substance: ethanol
Ignition temperature	425 °C Method: DIN 51 794 related to substance: ethanol
Lower explosion limit	3.5 %(V) related to substance: ethanol
Upper explosion limit	28 %(V) related to substance: ethanol
Vapour pressure	ca. 60 hPa (20 °C) related to substance: ethanol
Density	0.81 g/cm <sup>3</sup> (20 °C) related to substance: ethanol
Water solubility	miscible (20 °C)

**10. STABILITY AND REACTIVITY**

Conditions to avoid	Avoid temperatures above 40 °C
Hazardous decomposition products	no
Thermal decomposition	Distills without decomposition at atmospheric pressure.
Hazardous reactions	Reacts violently with: strong oxidants.

**11. TOXICOLOGICAL INFORMATION**

Skin irritation	not irritating
Eye irritation	no irritating effects

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**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)****Behaviour in environmental compartments****Ecotoxicity effects****Further information on ecology**

Further Information                      Do not allow to enter waste water drains, watercourse or soil.

**13. DISPOSAL CONSIDERATIONS****Product**

Disposal according to local authority regulations.

**Uncleaned packaging**

Disposal according to local authority regulations.

**14. TRANSPORT INFORMATION****Land transport ADR/RID/GGVSE (Germany)**

II	Class	3
II	ADR/RID-Labels	3
	UN-No	1170
	Packaging group	II
II	orange warning plate	33 / 1170
	Description of the goods (Technical name)	
	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	

**Sea transport IMDG-Code/GGVSee**

II	Class	3
	UN-No	1170
II	Packaging group	II
	EmS	F-E, S-D
	Proper technical name (Proper shipping name)	
	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	

**Air transport ICAO-TI/IATA-DGR**

II	Class	3
	UN-No	1170
II	Packaging group	II
	Proper technical name (Proper shipping name)	
	Ethanol solution	

**Loading instructions/Remarks**

IATA_C	ERG-Code 3L
IATA_P	ERG-Code 3L
ADR	Observe listed materials regulation §7, paragraph 1 GGVSE

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**15. REGULATORY INFORMATION****Labelling according to EEC Directive****hazard-defining component(s)**

- ethanol

Symbol(s)	F	Highly flammable
R-phrases(s)	R11	Highly flammable.
S-phrases(s)	S 7 S16	Keep container tightly closed. Keep away from sources of ignition. - No smoking.

**National legislation**

employment restriction	The employment limitations under the protection of young persons act, the laws on pregnant women and young mothers and work at home is/are to be observed.
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**16. OTHER INFORMATION****Risk phrase (R phrase) texts**

- ethanol  
R11 Highly flammable.
- calcium chloride  
R36 Irritating to eyes.

**Further information**

Changes since the last version will be highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.