

SAFETY DATA SHEET (EC 1907/2006)**DeguDent**

A Dentsply International Company

Deguvest Flüssigkeit
Optivest Flüssigkeit
Biosol E

Material no.		Version	2.1 / GB
Specification	102906	Revision date	25.01.2008
VA-Nr		Print Date	25.01.2008
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name : Deguvest Flüssigkeit
Optivest Flüssigkeit
Biosol E

Company : DeguDent GmbH
Postfach 1364
D-63403 Hanau

Telephone : +49 (0)6181/59-5767
Telefax : +49 (0)6181/59-5879
Email address : SDB@degudent.de

Emergency telephone number : +49 (0)180 / 23 24-555

Use of the Substance / Preparation : For dental use only.

2. HAZARDS IDENTIFICATION**Additional safety information for humans and the environment**

No dangerous reactions are known to occur with correct handling and storage.

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

• Metasilicic acid			
CAS-No.	7699-41-4	EC-No.	231-716-3
• 1,2-ethanediol		2% - 4%	
CAS-No.	107-21-1	EC-No.	203-473-3
	Xn; R22		
• formaldehyde		< 0.2%	
CAS-No.	50-00-0	EC-No.	200-001-8
	Carc.Cat.3; R40		
	T; R23/24/25		
	C; R34		
	R43		

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See chapter 16 for text of risk phrases

4. FIRST AID MEASURES**General advice**

Remove contaminated or saturated clothing.

Inhalation

If aerosol or mists are formed:
Move victims into fresh air.

Skin contact

Upon skin contact, wash with plenty of water.

Eye contact

Rinse thoroughly with plenty of water keeping eyelid open.
In case of persistent discomfort
Consult an ophthalmologist.

Ingestion

Have the mouth rinsed with water.
After absorbing large amounts of substance
Consult a physician immediately.

Notes to physician

After oral intake of very large amounts:
poisoning possible by: ethylene glycol, formaldehyde.
Possible signs of poisoning:
gastro-intestinal complaints, diarrhoea, dizziness, daze, drop in blood pressure.
Danger of: acidosis, kidney damage.
After absorbing large amounts of substance
gastric lavage
Acceleration of gastrointestinal passage
ethylene glycol:
administration of activated charcoal.
Specific therapy/antidote treatment: Ethanol

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

water spray, foam, quenching powder, carbon dioxide (CO₂)

Extinguishing media which must not be used for safety reasons

high volume water jet

Specific hazards during fire fighting

The product itself does not burn.

Special protective equipment for fire-fighters

Employ protective equipment commonly used in the event of fire.

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6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Wear suitable gloves.

Environmental precautions

Do not allow the product into the following compartments:

stretches of water

groundwater

sewage water

Methods for cleaning up

Pick up mechanically with a suitable material and collect in a suitable container.

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

Local ventilation.

Wear suitable protective clothing and gloves.

Advice on protection against fire and explosion

No special precautions required.

Storage**Requirements for storage areas and containers**

Keep tightly sealed in original packing.

Storage stability

Protect from frost.

Keep at temperatures of between 5 °C and 30 °C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Components with workplace control parameters**• **1,2-ethanediol**

CAS-No.	107-21-1	EC-No.	203-473-3
Control parameters	20 ppm 52 mg/m ³		Time Weighted Average (TWA):(EU ELV)
Control parameters	40 ppm 104 mg/m ³		Short Term Exposure Limit (STEL):(EU ELV)
Control parameters			Skin designation:(EU ELV)
	Can be absorbed through the skin.		
Control parameters	10 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
type of exposition	Particulate.		
Control parameters	20 ppm 52 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
type of exposition	Vapor.		

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Control parameters	40 ppm 104 mg/m ³		Short Term Exposure Limit (STEL):(EH40 WEL)
type of exposition	Vapor.		
Control parameters			Skin designation:(EH40 WEL)
type of exposition	Particulate. Can be absorbed through the skin.		
Control parameters			Skin designation:(EH40 WEL)
type of exposition	Vapor. Can be absorbed through the skin.		
• formaldehyde			
CAS-No.	50-00-0	EC-No.	200-001-8
Control parameters	2 ppm 2.5 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	2 ppm 2.5 mg/m ³		Short Term Exposure Limit (STEL):(EH40 WEL)

Engineering measures

Local ventilation.

Personal protective equipment**Respiratory protection**

Respirator with brown A-type filter

Hand protection

protective gloves

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

Eye protection

Safety glasses with side-shields

Hygiene measures

Handle in accordance with good industrial hygiene and safety practices.

No eating, drinking, smoking, or snuffing tobacco at work. Wash face and/or hands before break and end of work.

Protective measures

If the limits at the workplace are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	liquid
Colour	blue
Odour	weakly of formaldehyde

Safety data

pH	ca. 10	
	Medium:	water

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Boiling point/range	> 100 °C
Density	ca. 1.2 - 1.33 g/cm ³

Further information

Miscibility in water	completely miscible
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10. STABILITY AND REACTIVITY

Materials to avoid	None known
Hazardous decomposition products	Formaldehyde
Further information	Keep at temperatures of between 5 °C and 30 °C.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 Rat: > 15000 mg/kg literature related to substance: Metasilicic acid
Skin irritation	Rabbit not irritating literature
Eye irritation	Rabbit not irritating literature
Human experience	To date handling this product has not been known to cause any detrimental effects.

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

Toxicity to fish	LC0 <i>Leuciscus idus melanotus</i> : 500 mg/l literature
Toxicity to bacteria	<i>Pseudomonas fluorescens</i> : > 5000 mg/l literature

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13. DISPOSAL CONSIDERATIONS**Product**

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

14. TRANSPORT INFORMATION**Transport/further information**

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION**Labelling according to EC Directives**

Other data	According to the Dangerous Preparations Directive (1999/45/EG): no labelling
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National legislation

16. OTHER INFORMATION**Risk phrase (R phrase) texts**

- **1,2-ethanediol**
R22 Harmful if swallowed.
- **formaldehyde**
R40 Limited evidence of a carcinogenic effect.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R43 May cause sensitization by skin contact.

Further information

Changes since the last version are 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.