

**SAFETY DATA SHEET (EC 1907/2006)****Deguvest Flüssigkeit  
Optivest Flüssigkeit  
Biosol E****DeguDent**

A Dentsply International Company

Material no.		Version	<b>2.3 / GB</b>
Specification	<b>102906</b>	Revision date	<b>07.02.2011</b>
VA-Nr		Print Date	<b>07.02.2011</b>
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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.

REACH Registration No.: if available listed in Chapter. 3

**2. HAZARDS IDENTIFICATION****Other Hazards**

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC**

<b>• Metasilicic acid</b>			
CAS-No.	7699-41-4	EC-No.	231-716-3
<b>• 1,2-ethanediol</b> 2% - 4%			
CAS-No.	107-21-1	EC-No.	203-473-3
	Xn; R22		
<b>• formaldehyde...%</b> < 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

### Description of first aid measures

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.

### Indication of any immediate medical attention and special treatment needed

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 (CO<sub>2</sub>)

### Unsuitable extinguishing media

high volume water jet

### Special hazards arising from the substance or mixture

The product itself does not burn.

### Special protective equipment for fire-fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear suitable gloves.

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**Environmental precautions**

Do not allow the product into the following compartments:  
stretches of water  
groundwater  
sewage water

**Methods and material for containment and cleaning up**

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

**7. HANDLING AND STORAGE****Handling****Precautions for safe handling**

Local ventilation.  
Wear suitable protective clothing and gloves.

**Advice on protection against fire and explosion**

No special precautions required.

**Storage****Conditions for safe storage, including any incompatibilities**

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****Control parameters**

• 1,2-ethanediol			
CAS-No.	107-21-1	EC-No.	203-473-3
Control parameters	20 ppm 52 mg/m <sup>3</sup> Indicative		Time Weighted Average (TWA):(EU ELV)
Control parameters	40 ppm 104 mg/m <sup>3</sup> Indicative		Short Term Exposure Limit (STEL):(EU ELV)
Control parameters	Can be absorbed through the skin.		Skin designation:(EU ELV)
Control parameters	10 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
type of exposition	Particulate.		
Control parameters	20 ppm 52 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
type of exposition	Vapor.		
Control parameters	40 ppm 104 mg/m <sup>3</sup>		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.		

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**• formaldehyde...%**

CAS-No.	50-00-0	EC-No.	200-001-8
Control parameters	2 ppm 2.5 mg/m <sup>3</sup>	Time Weighted Average (TWA):(EH40 WEL)	
Control parameters	2 ppm 2.5 mg/m <sup>3</sup>	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 workplace exposure limits 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

**Information on basic physical and chemical properties**

pH	ca. 10
Medium:	water

Boiling point/range	> 100 °C
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Density	ca. 1.2 - 1.33 g/cm <sup>3</sup>
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**Further information**

Miscibility in water	completely miscible
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**10. STABILITY AND REACTIVITY**

Incompatible materials	None known
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Hazardous decomposition products    Formaldehyde

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

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## 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.

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## 12. ECOLOGICAL INFORMATION

### 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.

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## 14. TRANSPORT INFORMATION

### Transport/further information

Not classified as dangerous in the meaning of transport regulations.

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## 15. REGULATORY INFORMATION

**Labelling according to EC Directives**

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

## National legislation

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## 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 sensitisation 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.