

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

Material no.		Version	2.6 / GB
Specification	102906	Revision date	01.12.2014
VA-Nr	01,699,502	Print Date	01.12.2014
		Page	1 / 9

1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Trade name Deguvest Flüssigkeit
 Optivest Flüssigkeit
 Biosol E

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

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant applications identified For dental use only.

1.3. Details of the supplier of the safety data sheet

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@dentsply.com

1.4. Emergency telephone number

Emergency information +49 (0)180 / 23 24-555 (international)

2. Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Remarks Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
 Assessment of hazardous properties and decision regarding classification as per VO EG
 1272/2008 Chap. 2.

Classification as per Directive 67/548/EC or Directive 1999/45/EC

In accordance with Directive 1999/45/EC, the product does not need to be classified nor labelled.

2.2. Label elements**Labelling as per (EU) 1272/2008**

Remarks Labelling not required according to EU-CLP Ordinance (1272/2008).

2.3. Other hazards

No hazardous reactions are known if properly handled and stored.
Contains small amounts of (below the concentration to take them into consideration for):
Formaldehyde
A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

3. Composition/information on ingredients**Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008****• Metasilicic acid**

SAFETY DATA SHEET (EC 1907/2006)**Deguvest Flüssigkeit****Optivest Flüssigkeit****Biosol E****DeguDent**
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Material no.		Version	2.6 / GB
Specification	102906	Revision date	01.12.2014
VA-Nr	01,699,502	Print Date	01.12.2014
		Page	2 / 9

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		
Acute toxicity (oral)				Category 4	H302
• formaldehyde...%		< 0.2%			
CAS-No.	50-00-0	EC-No.	200-001-8		
Carcinogenicity				Category 2	H351
Acute toxicity (inhalation)				Category 3	H331
Acute toxicity (dermal)				Category 3	H311
Acute toxicity (oral)				Category 3	H301
Skin corrosion/irritation				Category 1B	H314
Skin Sensitisation				Category 1	H317

Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC

• 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			

Texts of H phrases, see in Chapter 16
See chapter 16 for text of risk phrases

4. First aid measures**4.1. 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.

If symptoms persist, call a physician.

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

Do not induce vomiting.

Have patient drink plenty of water in small sips.

Consult a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

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Material no.		Version	2.6 / GB
Specification	102906	Revision date	01.12.2014
VA-Nr	01,699,502	Print Date	01.12.2014
		Page	3 / 9

Symptoms

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not be allowed

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: water spray
foam
quenching powder
carbon dioxide (CO₂)

Unsuitable extinguishing media: high volume water jet

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for firefighters

Extinction measures are to be adjusted to the specific location.
Employ protective equipment commonly used in the event of fire.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Before tackling a spillage put on protective equipment including suitable goggles, gloves, protective overalls and boots.

6.2. Environmental precautions

Prevent substance from entering soil, natural bodies of water and sewer systems.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Wear personal protective equipment; see section 8.

Disposal considerations; see section 13.

7. Handling and storage

7.1. Precautions for safe handling

Local ventilation.

Do not allow containers and vessels to stand open

Wear suitable protective clothing and gloves.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

No special measures are required.

Storage

Keep container tightly closed in a dry and well-ventilated place.

German storage class

12 - Non Combustible Liquids

Storage stability

Protect from frost.

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

7.3. Specific end use(s)

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

Material no.		Version	2.6 / GB
Specification	102906	Revision date	01.12.2014
VA-Nr	01,699,502	Print Date	01.12.2014
		Page	4 / 9

We are unaware of any specific end uses which go beyond the data reported in Section 1.

8. Exposure controls/personal protection**8.1. Control parameters**

• 1,2-ethanediol			
CAS-No.	107-21-1	EC-No.	203-473-3
Control parameters	20 ppm 52 mg/m3 Indicative		Time Weighted Average (TWA):(EU ELV)
Control parameters	40 ppm 104 mg/m3 Indicative		Short Term Exposure Limit (STEL):(EU ELV)
Control parameters			Skin designation:(EU ELV)
	Can be absorbed through the skin.		
Control parameters	10 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Particulate.		
Control parameters	20 ppm 52 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Vapor.		
Control parameters	40 ppm 104 mg/m3		Short Term Exposure Limit (STEL):(EH40 WEL)
type of exposure	Vapor.		
Control parameters			Skin designation:(EH40 WEL)
type of exposure	Particulate. Can be absorbed through the skin.		
Control parameters			Skin designation:(EH40 WEL)
type of exposure	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/m3		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	2 ppm 2.5 mg/m3		Short Term Exposure Limit (STEL):(EH40 WEL)

8.2. Exposure controls**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

Skin and body protection

Usual lab protective clothing

Hygiene measures

Handle in accordance with good industrial hygiene and safety practices.

Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work.

SAFETY DATA SHEET (EC 1907/2006)**Deguvest Flüssigkeit
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A Dentsply Company

Material no.		Version	2.6 / GB
Specification	102906	Revision date	01.12.2014
VA-Nr	01,699,502	Print Date	01.12.2014
		Page	5 / 9

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**9.1. Information on basic physical and chemical properties**

Appearance

Form	liquid
Colour	blue

Odour	weakly of formaldehyde
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pH	ca. 10	Medium:	Water
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Boiling point/range	> 100 °C
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Density	ca. 1.2 - 1.33 g/cm ³
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Miscibility in water	completely miscible
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Autoinflammability	Not capable of spontaneous combustion or heating.
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9.2. Other information

Other information	No further physicochemical data were determined.
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10. Stability and reactivity**10.1. Reactivity**

no data available

10.2. Chemical stability

The product is chemically stable.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No dangerous reactions known.
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10.4. Conditions to avoid

temperatures: < 5 °C

10.5. Incompatible materials

acids

10.6. Hazardous decomposition products

Formaldehyde

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

11. Toxicological information**11.1. Information on toxicological effects**

Acute oral toxicity	LD50 Rat: > 15000 mg/kg
	Test substance: Metasilicic acid
	literature

Acute inhalation toxicity	no data available
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Material no.		Version	2.6 / GB
Specification	102906	Revision date	01.12.2014
VA-Nr	01,699,502	Print Date	01.12.2014
		Page	6 / 9

Acute dermal toxicity	No data available
Skin irritation	Rabbit not irritating literature
Eye irritation	Rabbit not irritating literature
Sensitization	no data available
Repeated dose toxicity	no data available
Mutagenicity assessment	no data available
Carcinogenicity	No data available
Toxicity to reproduction	No data available
Human experience	Toxic effects from handling this product are unknown as yet.

12. Ecological information**12.1. Toxicity**

No ecotoxicological data is available for this product.

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

12.2. Persistence and degradability

Biodegradability no data available

12.3. Bioaccumulative potential

Bioaccumulation no data available

12.4. Mobility in soil

Mobility No further information available

12.5. Results of PBT and vPvB assessment

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6. Other adverse effects

Further Information Introduction into soil, natural water bodies or sewerage must be prevented.

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Specification	102906	Revision date	01.12.2014
VA-Nr	01,699,502	Print Date	01.12.2014
		Page	7 / 9

13. Disposal considerations**13.1. Waste treatment methods****Product**

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

14. Transport information**Not dangerous according to transport regulations.**

- | | |
|-------------------------------------|----|
| 14.1. UN number: | -- |
| 14.2. UN proper shipping name: | -- |
| 14.3. Transport hazard class(es): | -- |
| 14.4. Packing group: | -- |
| 14.5. Environmental hazards: | -- |
| 14.6. Special precautions for user: | No |

15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National legislation****15.2. Chemical safety assessment**

Chemical safety assessment	No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulation is required for this product.
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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.

Texts of the H-phrases**• 1,2-ethanediol**

H302 Harmful if swallowed.

• formaldehyde...%

H351 Suspected of causing cancer.

H331 Toxic if inhaled.

H311 Toxic in contact with skin.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

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Material no.		Version	2.6 / GB
Specification	102906	Revision date	01.12.2014
VA-Nr	01,699,502	Print Date	01.12.2014
		Page	8 / 9

Further information

Further information Assessment of hazardous properties and decision regarding classification as per VO EG 1272/2008 Chap. 2.

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

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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Material no.		Version	2.6 / GB
Specification	102906	Revision date	01.12.2014
VA-Nr	01,699,502	Print Date	01.12.2014
		Page	9 / 9

Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization