

**Eclipse Gel**

Material no.		Version	<b>1.1 / GB</b>
Specification	<b>151794</b>	Revision date	<b>04.03.2008</b>
VA-Nr		Print Date	<b>04.03.2008</b>
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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	:	Eclipse Gel
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****Classification**

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical nature**

The preparation contains:

Pigments  
initiators  
stabilisers

**Information on ingredients / Hazardous components**

- **7,7,9 (or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecane-1,16-diyl-bismethacrylate** 70% - 100%  
CAS-No. 72869-86-4 EC-No. 276-957-5  
R52/53
- **Silicon dioxide, chemically prepared** 1% - 30%  
CAS-No. 7631-86-9 EC-No. 231-545-4

See chapter 16 for text of risk phrases

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

Remove contaminated or saturated clothing immediately and dispose of safely.

**Inhalation**

Remove to fresh air.

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**Skin contact**

Wash off immediately with soap and plenty of water.  
Consult a doctor in the event of permanent skin irritation.

**Eye contact**

Rinse thoroughly with plenty of water keeping eyelid open.  
If eye irritation persists, consult a specialist.

**Ingestion**

Consult a physician immediately.

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

mist, dry powder, foam, carbon dioxide (CO<sub>2</sub>)

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

high volume water jet

**Special protective equipment for fire-fighters**

Employ protective equipment commonly used in the event of fire.  
In the event of fire, wear self-contained breathing apparatus.

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

Handle in accordance with good industrial hygiene and safety practices.

**Environmental precautions**

Prevent penetration into soil, stretches of water and drainage systems.

**Methods for cleaning up**

Absorb with liquid-binding material, e. g.: diatomaceous earth sand universal binder.

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

Handle in accordance with good industrial hygiene and safety practices.  
Protect from heat sources, heat and exposure to direct sunlight

**Advice on protection against fire and explosion**

No special precautions required.

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

Store in the original receptacle, keeping this tightly sealed, under cool and dry conditions.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Components with workplace control parameters****• Silicon dioxide, chemically prepared**

CAS-No. 7631-86-9  
Control parameters 6 mg/m<sup>3</sup>

EC-No. 231-545-4  
Time Weighted Average (TWA):(EH40

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type of exposition	Inhalable dust.	WEL)
Control parameters	2.4 mg/m <sup>3</sup>	Time Weighted Average (TWA):(EH40 WEL)
type of exposition	Respirable dust.	

**Personal protective equipment****Hand protection**

Avoid contact with skin.  
Wear suitable gloves.  
Suitability for specific workplaces should be clarified with protective glove manufacturers.

**Eye protection**

Avoid contact with eyes.  
Safety glasses with side-shields

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practices.  
Avoid contact with skin, eyes and clothing.  
No eating, drinking, smoking, or snuffing tobacco at work. Wash face and/or hands before break and end of work.

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

Form	gel
Colour	according to the coloration
Odour	characteristic

**Safety data**

Flash point	> 100 °C
Ignition temperature	400 °C
Autoinflammability	not spontaneously flammable
Explosiveness	not explosive
Density	not determined
Water solubility	partly miscible

**10. STABILITY AND REACTIVITY**

Conditions to avoid	sun rays, heat, heat effect danger of polymerisation
Hazardous decomposition products	No hazardous decomposition products known.
Hazardous reactions	Polymerisation occurs when exposed to white light, ultraviolet light or heat.

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**11. TOXICOLOGICAL INFORMATION**

Skin irritation	Frequent and continual skin contact can cause skin reaction (skin irritation). Irritation of skin and mucous membranes possible.
Eye irritation	May be irritating on frequent or long-term contact.
Sensitization	None known

**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

Biodegradability	Exposure time: 28 d Result: 22 % Not readily biodegradable. Method: OECD 301 F related to substance: 7,7,9 (or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecane-1,16-diyl-bismethacrylate
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**Behaviour in environmental compartments****Ecotoxicity effects**

*Ecotoxicological tests with this preparation are not available.*

Toxicity to fish	LC50 Brachydanio rerio: 10.1 mg/l / 96 h Method: OECD 203 related to substance: 7,7,9 (or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecane-1,16-diyl-bismethacrylate
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**Further information on ecology**

Further Information	Prevent penetration into soil, stretches of water and drainage systems.
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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.

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**15. REGULATORY INFORMATION****Labelling according to EC Directives****hazard-defining component(s)**

- 7,7,9 (or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecane-1,16-diyl-bismethacrylate

**R-phrase(s)** R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-phrase(s)** S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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

- 7,7,9 (or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecane-1,16-diyl-bismethacrylate

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Further information**

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

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