

**Triad Dualine**

Material no.		Version	<b>2.0 / GB</b>
Specification	<b>143882</b>	Revision date	<b>17.11.2004</b>
VA-Nr		Print Date	<b>22.06.2009</b>
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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	:	Triad Dualine
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****Chemical nature**

The preparation contains:  
Polyacrylate-Copolymer  
Pigments  
initiators  
stabilisers  
Dibenzoylperoxide

**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** > 60%  
CAS-No. 72869-86-4 EC-No. 276-957-5  
R52/53
- **Silicon dioxide, chemically prepared** < 10%  
CAS-No. 7631-86-9 EC-No. 231-545-4

See chapter 16 for text of risk phrases

**3. HAZARDS IDENTIFICATION**

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

**4. FIRST AID MEASURES****Inhalation**

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

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**Skin contact**

Wash off immediately with soap and plenty of water.  
Remove contaminated or saturated clothing immediately and dispose off safely.  
If skin irritation persists, call a physician.

**Eye contact**

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

**Ingestion**

Call a physician immediately.

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

water spray, mist, carbon dioxide (CO<sub>2</sub>), quenching powder

**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.

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**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**

Use mechanical handling equipment.

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

No eating, drinking, smoking, or snuffing tobacco at work.  
Handle in accordance with good industrial hygiene and safety practices.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.  
In case of fire cool containers or take them to a safe place.

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

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

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

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- **Silicon dioxide, chemically prepared**

CAS-No.	7631-86-9	EC-No.	231-545-4
Control parameters	6 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 OES)
type of exposition	Total inhalable dust.		
Control parameters	2.4 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 OES)
type of exposition	Respirable dust.		
Control parameters	4 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 (UK))
type of exposition	Respirable dust.		
Control parameters	10 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 (UK))
type of exposition	Total inhalable dust.		

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

protective gloves  
Suitability for specific workplaces should be clarified with protective glove manufacturers.

**Eye protection**

safety glasses

**Hygiene measures**

Wash hands before breaks and at the end of workday.  
No eating, drinking, smoking, or snuffing tobacco at work.

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

Form	paste
Colour	according to the coloration
Odour	characteristic

**Safety data**

pH	n.a.
Flash point	> 150 °C
Autoinflammability	not spontaneously flammable
Explosiveness	not explosive
Density	not determined
Water solubility	insoluble
Viscosity, dynamic	viscous

**10. STABILITY AND REACTIVITY**

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Conditions to avoid	Avoid light effect heat sources of ignition.
Materials to avoid	radical generating substances
Hazardous decomposition products	None known
Hazardous reactions	polymerization

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	LD50 Rat: > 5000 mg/kg Method: OECD Test Guideline 401 related to substance: 7,7,9 (or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecane-1,16-diyl-bis methacrylate
Skin irritation	Rabbit / 4 h not irritating Method: OECD Test Guideline 404 related to substance: 7,7,9 (or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecane-1,16-diyl-bis methacrylate
Eye irritation	Rabbit not irritating Method: OECD Test Guideline 405 related to substance: 7,7,9 (or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecane-1,16-diyl-bis methacrylate

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

Toxicity to fish	LC50 (Brachydanio rerio): 10000 mg/l / 96 h Method: OECD 203 related to substance: Silicon dioxide, chemically prepared
Toxicity to daphnia	EC50 Daphnia magna: 10000 mg/l Method: OECD 202 related to substance: Silicon dioxide, chemically prepared

**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.

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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****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

<b>R-phrase(s)</b>	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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<b>S-phrase(s)</b>	S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
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**National legislation**

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**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.
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**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.

**SAFETY DATA SHEET** (91/155/EWG)**DeguDent***A Dentsply International Company***Triad DuaLine**

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