

SAFETY DATA SHEET (91/155/EWG)**DeguDent**

A Dentsply International Company

Cristobal+ Modelling liquid

Material no.		Version	1.0 / GB
Specification	144560	Revision date	14.09.2005
VA-Nr		Print Date	14.09.2005
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name	:	Cristobal+ Modelling liquid
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:
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**

CAS-No.	72869-86-4	EC-No.	276-957-5
	R52/53		

- **methacrylic acid ester**

CAS-No.	
	Xi
	R36/37/38

See chapter 16 for text of risk phrases

3. HAZARDS IDENTIFICATION

Irritating to eyes, respiratory system and skin.

4. FIRST AID MEASURES**Inhalation**

Take affected persons out into the fresh air.
In case of persistent discomfort:
Consult a physician.

Skin contact

Wash off with soap and water.

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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.

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

Water spray, foam, CO₂, dry powder., sand

Extinguishing media which must not be used for safety reasons

high volume water jet

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.

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**

Keep containers tightly closed in a cool, well-ventilated place.
Protect from effects of light and sunlight.

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

Ensure that there is suitable air extraction / ventilation in the workplace or at the working machines. If necessary extractor suction on specific objects.

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Personal protective equipment**Respiratory protection**

Do not breathe Dusts and vapours:.

If workplace exposure limit is exceeded apply Respirator with brown A-type filter.

Hand protection

protective gloves

Eye protection

safety glasses

Hygiene measures

Handle in accordance with good industrial hygiene and safety practices.

No eating, drinking, smoking, or snuffing tobacco at work.

Protective measures

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	viscous liquid
Colour	according to the coloration
Odour	ester-like

Safety data

pH	not applicable
Flash point	> 150 °C
Lower explosion limit	not determined
Upper explosion limit	not determined
Density	ca. 1.1 g/cm ³
Water solubility	ca. 1 g/l (20 °C)

10. STABILITY AND REACTIVITY

Conditions to avoid	Avoid light effect heat sources of ignition.
Materials to avoid	radical generating substances, reducing agents, heavy metal ions
Hazardous decomposition products	organic vapours,, harmful gases/vapours
Thermal decomposition	> 200 °C
Hazardous reactions	polymerization

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 Rat: > 5000 mg/kg
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Skin irritation	skin irritation possible
Eye irritation	May cause eye irritation in susceptible persons.
Human experience	Frequent and continuous exposure may cause reactions of the skin and respiratory tract.

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

No ecotoxicological data is available for this product.

Further information on ecology

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

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****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
- methacrylic acid ester

Symbol(s)	Xi	Irritant
R-phrases)	R36/37/38	Irritating to eyes, respiratory system and skin.
S-phrases(s)	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28	After contact with skin, wash immediately with plenty of

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soap and water.

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.

- **methacrylic acid ester**

R36/37/38

Irritating to eyes, respiratory system and skin.

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.

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