

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### da vinci Formula 1 Light-cured resin cement

Print date: 08.09.2016

Product code: 10805XXUSA

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## 1. Identification

### Product identifier

da vinci Formula 1 Light-cured resin cement

### Recommended use of the chemical and restrictions on use

#### Use of the substance/mixture

dental use

### Details of the supplier of the safety data sheet

#### Manufacturer

Company name:	Deltamed GmbH .	
Street:	Raiffeisenstr. 8a	
Place:	D-61169 Friedberg	
Telephone:	+49 6031 7283-0	Telefax: +49 6031 7283-29
e-mail:	info@deltamed.de	
Internet:	www.deltamed.de	
Responsible Department:	F&E	
	Telefax +49 6031 7283-29	

#### Supplier

Company name:	COSMEDENT, Inc.	
Street:	401 North Michigan Avenue Ste . 2500	
Place:	USA-IL 60611 Chicago	
Telephone:	1-800-621-6729	Telephone: 312-644-9586
Contact person:	Mary O` Malley	
e-mail:	mary@cosmedent.com	
Internet:	cosmedent.com	

**Emergency phone number:** 312-644-9586

## 2. Hazard(s) identification

### Classification of the chemical

#### 29 CFR Part 1910.1200

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2A

Respiratory or skin sensitization: Skin Sens. 1B

Hazard Statements:

Causes skin irritation

May cause an allergic skin reaction

Causes serious eye irritation

### Label elements

#### 29 CFR Part 1910.1200

**Signal word:** Warning

**Pictograms:**



#### Hazard statements

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**Precautionary statements**

- Wear protective gloves/protective clothing/eye protection.
- If on skin: Gently wash with plenty of soap and water.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If skin irritation or rash occurs: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.

**Hazards not otherwise classified**

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

**3. Composition/information on ingredients****Mixtures****Chemical characterization**

Mixture of acrylic resins, fillers and initiators.

**Hazardous components**

CAS No	Components	Quantity
1565-94-2	Bisphenol A Diglycidyl Methacrylate	* 10 - 30 %
72869-86-4	7,7,9-Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecan-1,16-diol dimethacrylate	* < 25 %
2082-81-7	1,4 Butanediol dimethacrylate	* < 25 %

**Further Information**

\* The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

**4. First-aid measures****Description of first aid measures****General information**

Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours. Take off all contaminated clothing immediately.

**After inhalation**

Provide fresh air. Medical treatment necessary.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

**After contact with eyes**

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

**After ingestion**

Do NOT induce vomiting. Medical treatment necessary.

**Most important symptoms and effects, both acute and delayed**

No information available.

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

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media**

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**Suitable extinguishing media**

Foam. Extinguishing powder, Carbon dioxide,

**Specific hazards arising from the chemical**

In case of fire may be liberated: Carbon monoxide. Carbon dioxide Hazardous decomposition products

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.  
Do not allow entering drains or surface water.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**Environmental precautions**

Do not allow to enter into surface water or drains.

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

Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

**7. Handling and storage**

**Precautions for safe handling**

**Advice on safe handling**

Provide adequate ventilation.

**Advice on protection against fire and explosion**

Keep away from sources of ignition. - No smoking.

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

**Requirements for storage rooms and vessels**

Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C (40 -75°F). Can polymerize with intense heat release.

**Advice on storage compatibility**

Do not store together with:  
Oxidising agent, strong  
food

**8. Exposure controls/personal protection**

**Control parameters**

**Exposure controls**

**Protective and hygiene measures**

Avoid contact with skin, eyes and clothes. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**Eye/face protection**

tightly fitting goggles

**Hand protection**

Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a

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suitable glove type has to be selected.

**Skin protection**

Wear suitable protective clothing.

**9. Physical and chemical properties**

**Information on basic physical and chemical properties**

Physical state: pasty  
 Color: various, depending on coloration  
 Odor: hardly noticeable

**Test method**

pH-Value: not determined

**Changes in the physical state**

Melting point/freezing point: not determined  
 Initial boiling point and boiling range: not determined  
 Flash point: not applicable

**Flammability**

Solid: not applicable  
 Gas: not applicable

Lower explosion limits: not determined  
 Upper explosion limits: not determined

**Auto-ignition temperature**

Solid: not applicable  
 Gas: not applicable

Decomposition temperature: not determined  
 Vapor pressure: not determined  
 Density: not determined  
 Water solubility: insoluble  
 Partition coefficient: not determined  
 Vapor density: not determined  
 Evaporation rate: not determined

**Other information**

Solid content: not determined

**10. Stability and reactivity**

**Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Hazardous reactions: Will not occur

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

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#### Conditions to avoid

Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C (40-75°F).

#### Incompatible materials

Oxidising agent, Reducing agent, Heavy metals, acids, Alkali (lye)

#### Hazardous decomposition products

No known hazardous decomposition products.

## 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Components			
	Exposure route	Dose	Species	Source
72869-86-4	7,7,9-Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecan-1,16-diol dimethacrylate			
	oral	LD50 >2000 mg/kg	Rat	OECD 401
2082-81-7	1,4 Butanediol dimethacrylate			
	oral	LD50 > 5000 mg/kg	Rat	OECD 401
	dermal	LD50 > 3000 mg/kg	Rabbit	

#### **Irritation and corrosivity**

Causes skin irritation  
Causes serious eye irritation

#### **Sensitizing effects**

May cause an allergic skin reaction (7,7,9-Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecan-1,16-diol dimethacrylate), (1,4 Butanediol dimethacrylate)  
Possible sensitization in case of persons suffering from hypersensitivity.

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

#### **Specific target organ toxicity (STOT) - single exposure**

Based on available data, the classification criteria are not met.

#### **Specific target organ toxicity (STOT) - repeated exposure**

Based on available data, the classification criteria are not met.

Carcinogenicity (NTP): None of the ingredients is listed.

Carcinogenicity (IARC): None of the ingredients is listed.

Carcinogenicity (OSHA): None of the ingredients is listed.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Further information**

Product has not been tested. The statement is derived from the properties of the components.

## 12. Ecological information

### Persistence and degradability

The product has not been tested.

### Bioaccumulative potential

The product has not been tested.

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**Mobility in soil**

The product has not been tested.

**Other adverse effects**

No information available.

**Further information**

Do not allow uncontrolled discharge of product into the environment. Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities. Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

**Contaminated packaging**

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

**14. Transport information****US DOT 49 CFR 172.101****Proper shipping name:**

Not a hazardous material with respect to these transport regulations.

**Marine transport (IMDG)****Other applicable information**

No dangerous good in sense of these transport regulations.

**Air transport (ICAO)****Other applicable information**

No dangerous good in sense of these transport regulations.

**Special precautions for user**

No information available.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National Inventory TSCA**

All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.

**National regulatory information**

SARA Section 311/312 Hazards:

Bisphenol A Diglycidyl Methacrylate (1565-94-2): Immediate (acute) health hazard

7,7,9-Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecan-1,16-diol dimethacrylate (72869-86-4):

Immediate (acute) health hazard

1,4 Butanediol dimethacrylate (2082-81-7): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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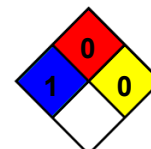
## 16. Other information

## Hazardous Materials Information Label (HMIS)

Health:	1
Flammability:	0
Physical Hazard:	0

## NFPA Hazard Ratings

Health:	1
Flammability:	0
Reactivity:	0
Unique Hazard:	



## Changes

Revision date:	08.09.2016
Revision No:	2,40
reason of revision:	classification according CLP / GHS.

## Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road )  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

## Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*