

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### Renamel Flowable Microhybrid

Revision date: 08/21/2024

Product code: 701XXX

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## 1. Identification

### Product identifier

Renamel Flowable Microhybrid

### 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:	Raiffeisenstraße 8a	
Place:	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	
Contact person:	Mary Nowak	Telephone: 312-644-9586
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

Respiratory or skin sensitization: Skin Sens. 1

Reproductive toxicity: Repr. 1B

### Label elements

#### 29 CFR Part 1910.1200

**Signal word:** Danger

**Pictograms:**



### **Hazard statements**

May cause an allergic skin reaction

May damage fertility or the unborn child

### **Precautionary statements**

Obtain special instructions before use.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection.

If on skin: Wash with plenty of water and soap.

If exposed or concerned: Get medical advice/attention.

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Dispose of contents/container in accordance with local regulation.

**Hazards not otherwise classified**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. 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.

**Relevant ingredients**

CAS No	Components	Quantity
72869-86-4	urethane dimethacrylate (UDMA)	* < 25 %
2082-81-7	1,4 Butanediol dimethacrylate (1,4-BDDMA)	* < 25 %
1303-86-2	Diboron trioxide (B2O3)	* < 10 %

**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****Suitable extinguishing media**

Foam, Extinguishing powder, Carbon dioxide, Water spray.

**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.

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#### Additional information

Supress gases/vapors/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

###### General advice

Provide adequate ventilation. Do not breathe gas/fume/vapor/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

###### Other information

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

##### Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

#### 7. Handling and storage

##### Precautions for safe handling

###### Advice on safe handling

Provide good room ventilation.

###### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

###### Advice on general occupational hygiene

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.

##### 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 – 24 °C (39 – 75 °F). Can polymerize with intense heat release.

###### Hints on joint storage

Do not store together with:

Oxidising agent

Food

#### 8. Exposure controls/personal protection

##### Control parameters

##### Exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
1303-86-2	Boron oxide Total dust	-	15		TWA (8 h)	PEL
1303-86-2	Boron oxide	-	10		TWA (8 h)	REL

##### Exposure controls

##### Individual protection measures, such as personal protective equipment

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#### 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 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	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		not determined
Solubility in other solvents		not determined
Partition coefficient n-octanol/water:		not determined
Vapor pressure:		not determined
Density:		not determined
Relative vapour density:		not determined
Particle characteristics:		not applicable

### Other information

#### Information with regard to physical hazard classes

Self-ignition temperature

Solid:	not applicable
Gas:	not applicable

#### Other safety characteristics

Evaporation rate:	not determined
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

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

**Conditions to avoid**

Protect from the action of light. Keep only in the original container at a temperature between 4 – 24 °C (39 – 75 °F). Can polymerize with intense heat release.

**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.

**ATEmix calculated**

ATE (oral) 52717 mg/kg; ATE (dermal) 10288 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) 35,11 mg/l

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
72869-86-4	urethane dimethacrylate (UDMA)				
	oral	LD50 >5000 mg/kg	Rat	OECD 401	
	dermal	LD50 >2000 mg/kg	Rat	OECD 402	
	inhalation (4 h) dust/mist	LC50 >5 mg/l			
2082-81-7	1,4 Butanediol dimethacrylate (1,4-BDDMA)				
	oral	LD50 > 5000 mg/kg	Rat	OECD 401	
	dermal	LD50 > 3000 mg/kg	Rabbit		
1303-86-2	Diboron trioxide (B2O3)				
	oral	LD50 3163 mg/kg	Mice	GESTIS	

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitizing effects**

May cause an allergic skin reaction (urethane dimethacrylate (UDMA); 1,4 Butanediol dimethacrylate (1,4-BDDMA))

Possible sensitization in case of persons suffering from hypersensitivity.

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

May damage fertility or the unborn child (Diboron trioxide (B2O3))

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: 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.

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Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture 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.

**Mobility in soil**

The product has not been tested.

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**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****Disposal recommendations**

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****U.S. DOT 49 CFR 172.101****Proper shipping name:**

Not a hazardous material with respect to these transport regulations.

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

No dangerous good in sense of these transport regulations.

**Air transport (ICAO-TI/IATA-DGR)****Other applicable information (air transport)**

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

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## 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:

urethane dimethacrylate (UDMA) (72869-86-4): Immediate (acute) health hazard

1,4 Butanediol dimethacrylate (1,4-BDDMA) (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 can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## 16. Other information

**Hazardous Materials Identification System (HMIS)**

Health: 1

Flammability: 1

Physical Hazard: 0

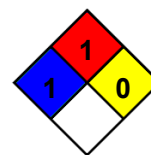
**NFPA Hazard Ratings**

Health: 1

Flammability: 1

Reactivity: 0

Unique Hazard:

**Changes**

Revision date: 08/21/2024

Revision No: 3,0

This data sheet contains changes from the previous version in section(s): 2,16.  
reason of revision: reclassification ingredients by supplier.

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