

Printing date 21.07.2025 Version number 1 Revision: 21.07.2025

1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: OpalTM BandTM Cement Catalyst
- · Article number: SDS 220-001.09R01, 71101, 500000, 500087, 500000-JP
- · Relevant identified uses of the substance or mixture and uses advised against Professional Orthodontic Cement
- · Application of the substance / the mixture Professional Orthodontic Cement
- Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Ultradent Products Inc.

505 W. Ultradent Drive (10200 S)

South Jordan, UT 84095-3942

USA

onlineordersupport@ultradent.com

(800) 552-5512

EC Responsible Person

Ultradent Products GmbH

Am Westhover Berg 30

51149 Cologne Germany

Email: infoDE@ultradent.com

Office Phone: +49(0)2203-35-92-0

- · Further information obtainable from: Customer Service
- · Emergency telephone number:

CHEMTREC (NORTH AMERICA) : +1 (800) 424-9300

(INTERNATIONAL): +(703) 527-3887

2 Hazards identification

- · Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



health hazard

Repr. 1B H360 May damage fertility or the unborn child.



Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms GHS07, GHS08
- · Signal word Danger
- · Hazard-determining components of labelling:

Triethylene Glycol Dimethacrylate

Ethyl-4-Dimethylamino Benzoate

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Diurethane Dimethacrylate

Organophosphine Oxide

· Hazard statements

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H360 May damage fertility or the unborn child.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P311 Call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

- · Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous compone	ents:	
CAS: 109-16-0	Triethylene Glycol Dimethacrylate	1-10%
EINECS: 203-652-6	♦ Skin Sens. 1, H317	
CAS: 72869-86-4	Diurethane Dimethacrylate	≥2.5-<10%
EINECS: 276-957-5	♦ Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 10287-53-3	Ethyl-4-Dimethylamino Benzoate	≥0.1-<1%
EINECS: 233-634-3	🕸 Repr. 1B, H360; 🕸 Aquatic Chronic 2, H411	
	Organophosphine Oxide	≥0.1-<1%
	💠 Skin Sens. 1A, H317; Aquatic Chronic 4, H413	1

[•] Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

This product is a thick paste, therefore inhalation is extremely unlikely.

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If swallowed in large quantities seek medical attention.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.

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· Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters:
- · Protective equipment:

Wear fully protective suit.

Mouth respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

- · Information about fire and explosion protection: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Protect from exposure to the light.

See product labelling.

Keep container tightly sealed.

· Specific end use(s) Professional Orthodontic Cement

8 Exposure controls/personal protection

- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information: The lists valid during the making were used as basis.

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- · Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

chemical mixture.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be

- · Eye/face protection Goggles recommended during refilling
- · **Body protection:** Protective work clothing

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

Physical state
Colour:
Odour:
Acrylic

· Odour threshold:
· Melting point/freezing point:
· Boiling point or initial boiling point and boiling range
· Flammability

Not applicable.

· Flammability · Lower and upper explosion limit

Lower:

Upper:
Not determined.
Flash point:
Not applicable.
Decomposition temperature:
Not determined.

· pH Not applicable (non-aqueous)

· Viscosity:

• Kinematic viscosity Not determined. • Dynamic: Not determined.

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• water: Not miscible or difficult to mix.

• Partition coefficient n-octanol/water (log value)
• Vapour pressure:

Not determined.

Not determined.

· Density and/or relative density

Density: Not determined.
 Relative density Not determined.
 Vapour density Not determined.

· Other information

· Appearance:

· Form: Paste

· Important information on protection of health and

environment, and on safety.

• **Ignition temperature:** Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Change in condition

• Evaporation rate Not determined.

· Information with regard to physical hazard classes

· Explosives Void Void · Flammable gases · Aerosols Void · Oxidising gases Void · Gases under pressure Void · Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void · Oxidising liquids Void · Oxidising solids Void · Organic peroxides Void

10 Stability and reactivity

· Desensitised explosives

· Corrosive to metals

- · Reactivity Polymerization occurs when exposed to visible light, ultraviolet light or extreme heat.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Void

Void

- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: Visible light, ultraviolet light, and extreme heat
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon dioxide

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11 Toxicological information

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if inhaled.

· LD/LC5	0 values rel	evant for classification:
109-16-	0 Triethylen	ne Glycol Dimethacrylate
Oral	LD50	>5,000 mg/kg (rat)
	LC50 Fish	16.4 mg/l (Fish) (Toxicity to fish)
Dermal	LD50	>2,000 mg/kg (mouse)
72869-8	6-4 Diureth	ane Dimethacrylate
Oral	LD50	>5,000 mg/kg (rat)
Organo	phosphine (Oxide Oxide
Oral	LD50	>2,000 mg/kg (rat)
	LC50 Fish	>0.09 mg/l (Fish) (Toxicity to fish)
Dermal	LD50	>2,000 mg/kg (rat)

- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · Reproductive toxicity May damage fertility or the unborn child.
- Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

12 Ecological information

· Toxicity

· Aquatic toxicity:	
109-16-0 Triethylene Glycol Dim	ethacrylate
EC50	>100 mg/kg (Algae)
Biodegradability	28 days (Aerobic) (Biodegradability testing)
Aqua toxicity	32 mg/l (daphnia) (No Observed Effect Concentration)
72869-86-4 Diurethane Dimetha	crylate
EC50	>0.6 mg/kg (Algae)
Biodegradability	28 days (Aerobic) (Biodegradability testing)
Organophosphine Oxide	
EC50 (static)	>1.175 mg/kg (daphnia) (Toxicity to aquatic invertebrates)
Aqua toxicity	≥0.008 mg/l (daphnia) (Daphnia Magna Reproduction Test)
Toxicity to Aquatic Plants (static)	>0.26 mg/l (Plant) (Toxicity to algae)

- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

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- · Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Dispose of contents/container in accordance with international, federal, state, and local regulations.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

Transport information		
· UN number or ID number · ADR, ADN, IMDG, IATA	not regulated	
· UN proper shipping name · ADR, ADN, IMDG, IATA	not regulated	
· Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	not regulated	
· Packing group · ADR, IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not Applicable	
· Maritime transport in bulk according instruments	g to IMO Not applicable.	
· UN "Model Regulation":	not regulated	

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · Poisons Act
- · Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

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· Reportable explosives precursors

None of the ingredients is listed.

Reportable poisons

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Chemical safety assessment:

Device is biocompatible when used as directed by dental professionals per ISO 10993-1

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases from Section 3

H317 May cause an allergic skin reaction.

H360 May damage fertility or the unborn child.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

- · Department issuing SDS: Environmental, Health, and Safety
- · Contact: Customer Service

· Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity - Category 4

Skin Sens. 1: Skin sensitisation - Category 1

Skin Sens. 1A: Skin sensitisation - Category 1A

Repr. 1B: Reproductive toxicity – Category 1B

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

* Data compared to the previous version altered.