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Safety Data Sheet according to WHS Regulations

Printing date 03.08.2023

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ming date 05.00.2025	
1 Identification	
· Product identifier	
· Trade name: Opal TM Bond TM MV	
 Article number: SDS 368-001.05R02, 71025 Relevant identified uses of the substance or mixture and uses advised against Professional Orthodontic Adhesive Application of the substance / the mixture Professional Orthodontic Adhesive 	
 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 Ultradent Australia Pty Ltd. Level 22/2 Market Street Sydney NSW 2000 Australia Email: info.anz@ultradent.com 	
Toll Free: 1-800-290929 • Further information obtainable from: Customer Service • Emergency telephone number: CHEMTREC (NORTH AMERICA) :(800) 424-9300 (INTERNATIONAL) : +(703) 527-3887	
2 Hazard(s) Identification · Classification of the substance or mixture	
Skin Sens. 1 H317 May cause an allergic skin reaction.	
· Label elements · GHS label elements Void · Hazard pictograms GHS07 · Signal word Warning	
 Hazard-determining components of labelling: Diurethane Dimethacrylate Triethylene Glycol Dimethacrylate Hazard statements H317 May cause an allergic skin reaction. Precautionary statements 	

- *If medical advice is needed, have product container or label at hand.* P101
- Keep out of reach of children. Read label before use. P102
- P103
- Avoid breathing dust/fume/gas/mist/vapours/spray. P261

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P280 Wear protective gloves.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

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

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

72869-86-4	Diurethane Dimethacrylate	≥ 1-<10
	♦ Skin Sens. 1, H317	
	Trade Secret	<10%
14808-60-7	Silica Glass	≥ 0-<10
	\bigcirc Acute Tox. 4, H332; Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319	
2530-85-0	Silane	≥ 0-<10
	0 Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H335	
109-16-0	Triethylene Glycol Dimethacrylate	≥ 1-<10
	♦ Skin Sens. 1, H317	
868-77-9	2-Hydroxyethyl Methacrylate	≥ 0.1-<1
	Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; Skin Sens. 1, H317	

4 First Aid Measures

• *General information: Immediately remove any clothing soiled by the product.*

• 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.

 $\label{eq:limit} \textit{Immediately wash with water and so ap and rinse thoroughly}.$

• After eye contact: Rinse opened eye for several minutes under running water.

• After swallowing: Do NOT induce vomiting.

• Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire Fighting Measures

• Suitable extinguishing agents: Foam Dry Chemical

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Carbon dioxide

Use fire extinguishing methods suitable to surrounding conditions.

• Special hazards arising from the substance or mixture No further relevant information available.

• Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

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:* Dispose contaminated material as waste according to item 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

· Handling:

- Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace.
- Information about fire and explosion protection: No special measures required.

· 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.

Protect from heat

See product labelling.

• Specific end use(s) Professional Orthodontic Adhesive

8 Exposure controls and personal protection

• Additional information about design of technical facilities: No further data; see item 7.

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

Trade Secret

WES Long-term value: 10 mg/m³ inhalable dust

14808-60-7 Silica Glass

WES Long-term value: 0.05 mg/m³

respirable dust

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

· Personal protective equipment:

General protective and hygienic measures: Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

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• 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.

• Protection of hands:



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 chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · *Material of gloves*

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 observed.

• Eye protection: Not required.

· Body protection: Protective work clothing

9 Physical and Chemical Properties · General Information · Appearance: · Form: Paste · Colour: Whitish · Odour: Acrvlic • Odour threshold: Not determined. · pH-value: *Not applicable (non-aqueous)* · Change in condition • Melting point/freezing point: Undetermined. • Initial boiling point and boiling range: Undetermined. · Flash point: Not applicable. · Flammability (solid, gas): Not determined. • Decomposition temperature: Not determined. • Auto-ignition temperature: Product is not selfigniting. · Explosive properties: Product does not present an explosion hazard. · Explosion limits: · Lower: Not determined. · Upper: Not determined. · Vapour pressure: Not applicable. • Density at 20 °C: 2.03 g/cm³ · Relative density Not determined. · Vapour density Not applicable. · Evaporation rate Not applicable. · Solubility in / Miscibility with Insoluble. · water: · Partition coefficient: n-octanol/water: Not determined. · Viscosity: · Dynamic: Not applicable.

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· Kinematic:

Not applicable.

• Other information

No further relevant information available.

10 Stability and Reactivity

· Reactivity Stable

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions: No dangerous reactions known.

· Conditions to avoid:

Light

Ignition sources

Flames

Heat

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

· Information on toxicological effects

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

values relevant for class	ification:
te Toxicity Estimates)	
LC50/4 h	22.8-37.9 mg/l
4 Diurethane Dimethaci	rylate
LD50	>5,000 mg/kg (rat)
ret	
LD50	>5,000 mg/kg (rat)
Triethylene Glycol Dime	thacrylate
LD50	>5,000 mg/kg (rat)
LC50 Fish	16.4 mg/l (Fish) (Toxicity to fish)
LD50	>2,000 mg/kg (mouse)
2-Hydroxyethyl Methacr	ylate
LD50	3,275 mg/kg (mouse)
	>5,000 mg/kg (rat)
LC50 Fish	>100 mg/l (Fish)
LD50	>3,000 mg/kg (rabbit)
LC50(Daphnia magna)	24.1 mg/l (daphnia)
	te Toxicity Estimates) LC50/4 h 4 Diurethane Dimethacu LD50 ret LD50 Triethylene Glycol Dimet LD50 LC50 Fish LD50 2-Hydroxyethyl Methacu LD50 LC50 Fish LD50

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

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

· Respiratory or skin sensitisation May cause an allergic skin reaction.

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

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

• *Reproductive toxicity Based on available data, the classification criteria are not met.*

• STOT-single exposure Based on available data, the classification criteria are not met.

 $\cdot \textit{STOT-repeated exposure Based on available data, the classification criteria are not met.}$

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

2 Ecological Inf	formation
• Toxicity	
• Aquatic toxicity:	
72869-86-4 Diur	ethane Dimethacrylate
EC50	>0.6 mg/kg (Algae)
Biodegradability	28 days (Aerobic) (Biodegradability testing)
109-16-0 Triethy	lene Glycol Dimethacrylate
EC50	>100 mg/kg (Algae)
Biodegradability	28 days (Aerobic) (Biodegradability testing)
Aqua toxicity	32 mg/l (daphnia) (No Observed Effect Concentration)
868-77-9 2-Hydro	oxyethyl Methacrylate
EC50	345 mg/kg (Algae)
• Behaviour in env • Bioaccumulative	legradability No further relevant information available. vironmental systems: potential No further relevant information available. Io further relevant information available.

- 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.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation

Disposal should be in accordance with applicable regional, national and local laws and regulations. Dispose of contents/container in accordance with international, federal, state, and local regulations.

• Recommendation: Disposal must be made according to official regulations.

· UN-Number		
· ADG, ADN, IMDG, IATA	not regulated	
· UN proper shipping name		
· ADG, ADN, IMDĞ, IATA	not regulated	

[·] Uncleaned packaging:

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· Transport hazard class(es)		
· ADG, ADN, IMDG, IATA · Class	not regulated	
· Packing group · ADG, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not Applicable	
• Transport in bulk according to Annex I and the IBC Code	I of Marpol Not applicable.	
· UN "Model Regulation":	not regulated	

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

• Australian In	wentory of Industrial Chemicals
72869-86-4	Diurethane Dimethacrylate
	Trade Secret
14808-60-7	Silica Glass
21282-97-3	2-[(2-methyl-1-oxoallyl)oxy]ethylacetoacetate
41637-38-1	EOBPADMA
2530-85-0	Silane
109-16-0	Triethylene Glycol Dimethacrylate
868-77-9	2-Hydroxyethyl Methacrylate
10287-53-3	Ethyl-4-Dimethylamino Benzoate
128-37-0	Butylated Hydroxytoluene
10373-78-1	Camphorquinone
162881-26-7	Organophosphine Oxide
· Standard for	the Uniform Scheduling of Medicines and Poisons
868-77-9 2-H	Hydroxyethyl Methacrylate \$5
· Australia: Pr	iority Existing Chemicals
None of the ir	ngredients 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

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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H319 Causes serious eye irritation.	
H332 Harmful if inhaled.	
H335 May cause respiratory irritation.	
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	z the International
Carriage of Dangerous Goods by Road)	,
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
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	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A	
Skin Sens. 1: Skin sensitisation – Category 1	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
* Data compared to the previous version altered.	
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