

Date of issue: 13.03.2025

Revision: 13.03.2025

1 Identification

• Other means of identification

- · Trade name: MosaicTM Universal Composite (All Shades)
- Article number:

SDS 370-001.05R01, 1003971, 4760, 4761, 4762, 1003661, 1003662, 4763, 4764, 4765, 1003663, 1003664, 1003665, 1003666, 4766, 4767, 4768, 1003667, 1003668, 1003669, 1003670, 1003671, 1003672, 4769, 4770, 4771, 1003673, 1003674, 1003675, 1003676, 1003677, 1003678, 1003679, 1003681, 4772, 4773, 4774, 1003682, 4775, 4776, 4777, 1003651, 1003652, 1003653, 1003654, 1003655, 1003656, 4778, 4779, 4780, 1003657, 1003658, 1003659, 1003660, 4781, 4782, 4783, 4784, 4785, 4786, 4787, 4788, 4789, 4790, 4791, 4792, 4793, 4794, 4795, 4796, 4797, 4798, 4799, 1002667, 1002666, 4803, S4801, S4802, S4803

Relevant identified uses of the substance or mixture and uses advised against Professional Dental Restorative Material

· Application of the substance / the mixture Professional Dental Restorative Material

• 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 corrosion/irritation – Category 2 Eye damage/irritation – Category 2A Skin sensitisation – Category 1 Specific target organ toxicity (single exposure) – Category 3

- · Label elements
- GHS label elements Void
- Hazard pictograms GHS07
- · Signal word Warning

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

(Contd. on page 2)

AU

Date of issue: 13.03.2025

Revision: 13.03.2025

Trade name: MosaicTM Universal Composite (All Shades)

	(Contd. of page 1)
· Hazard-determi	ining components of labelling:
	nethacrylate ($\geq 0\langle 40 \rangle$)
<i>Silane (≥0-<25</i>	%)
Triethylene Glyd	col Dimethacrylate ($\geq 0. < 12$ %)
· Hazard stateme	nts
H315 Causes sk	in irritation.
H319 Causes se	rious eye irritation.
H317 May caus	e an allergic skin reaction.
H335 May caus	e respiratory irritation.
· Precautionary s	statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves / eye protection / face protection.
P304+P340	<i>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</i>
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
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.

· Dangerous	components:	
72869-86-4	Diurethane Dimethacrylate	≥0-<40%
	🚸 Skin sensitisation – Category 1, H317	
2530-85-0		≥0-<25%
	Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H335	
109-16-0	Triethylene Glycol Dimethacrylate	≥0-<12%
	🚸 Skin sensitisation – Category 1, H317	
128-37-0	Butylated Hydroxytoluene	≥0-<3%
	♦ Acute toxicity - oral – Category 4, H302	
· Additional i	<i>nformation:</i> For the wording of the listed hazard phrases refer to section 16.	

4 First Aid Measures

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

• After inhalation:

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. If symptoms persist, consult a doctor.

(Contd. on page 3)

AU

Date of issue: 13.03.2025

Revision: 13.03.2025

(Contd. of page 2)

Trade name: MosaicTM Universal Composite (All Shades)

- *After swallowing: If symptoms persist consult doctor.*
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire Fighting Measures

· Suitable extinguishing agents:

Water spray, fog, or mist, foam, dry chemical, carbon dioxide Use fire extinguishing methods suitable to surrounding conditions.

- · Special hazards arising from the substance or mixture Carbon Oxides
- Advice for firefighters:

General: Evacuate all personnel; use protective equipment for fire-fighting. Use self-contained breathing apparatus when the product is involved in fire.

· Protective equipment: Wear fully protective suit.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures Not required.

- Environmental precautions:
- Dilute with plenty of water.
- 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

· Handling:

• Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

- Prevent formation of aerosols.
- · 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.
- Keep container tightly sealed.
- Specific end use(s) No further relevant information available.

(Contd. on page 4)

Date of issue: 13.03.2025

Revision: 13.03.2025

Trade name: MosaicTM Universal Composite (All Shades)

(Contd. of page 3)

8 Exposure controls and personal protection

• Appropriate engineering controls No further data; see section 7.

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

128-37-0 Butylated Hydroxytoluene

WES Long-term value: 10 mg/m³

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

Avoid contact with the eyes and skin.

• *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:



Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and Chemical Properties · General Information · Appearance: · Form: Paste Color Dependent · Colour: · Odour: Acrylic • Odour threshold: Not determined. *Not applicable (non-aqueous)* · pH-value: · Change in condition • Melting point/freezing point: Undetermined. (Contd. on page 5) ΑU

Date of issue: 13.03.2025

Revision: 13.03.2025

Trade name: MosaicTM Universal Composite (All Shades)

		(Contd. of page
Initial boiling point and boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability	Not applicable.	
Decomposition temperature:	Not determined.	
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 determined.	
Density at 20 °C:	$1.9-2.1 \text{ g/cm}^3$	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Fully miscible.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information		
Particle characteristics	Not applicable.	
· Physical state	Fluid	

10 Stability and Reactivity

· Reactivity Polymerization under the influence of light.

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid:
- Flames
- Light

Heat

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological Information

· Information on toxicological effects

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

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 >87,972 mg/kg (rat)

72869-86-4 Diurethane Dimethacrylate

Oral LD50 >5,000 mg/kg (rat)

109-16-0 Triethylene Glycol Dimethacrylate

Oral LD50 >5,000 mg/kg (rat)

LC50 Fish 16.4 mg/l (Fish) (Toxicity to fish)

(Contd. on page 6)

Date of issue: 13.03.2025

Revision: 13.03.2025

Trade name: MosaicTM Universal Composite (All Shades)

		(Contd. of page 5)
Dermal	LD50	>2,000 mg/kg (mouse)
128-37-	0 Butylated	Hydroxytoluene
Oral	LD50	10,700 mg/kg (guinea pig)
		1,040 mg/kg (mouse)
		890 mg/kg (rat)
	LC50 Fish	5.3 mg/l (Fish)
Dermal	LD50	>2,000 mg/kg (rat)
· Primary	, irritant eff	ect:
		ation Causes skin irritation.
		p/irritation Causes serious eye irritation.
		sensitisation May cause an allergic skin reaction.
· Germ ce	ell mutagen	icity 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** May cause respiratory irritation. • **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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

12 Ecological Information

· Toxicity

72869-86-4 Diuret	nane Dimethacrylate
EC50	>0.6 mg/kg (Algae)
Biodegradability	28 days (Aerobic) (Biodegradability testing)
109-16-0 Triethyle	ne Glycol Dimethacrylate
EC50	>100 mg/kg (Algae)
Biodegradability	28 days (Aerobic) (Biodegradability testing)
Aqua toxicity	32 mg/l (daphnia) (No Observed Effect Concentration)
128-37-0 Butylated	Hydroxytoluene
Aqua toxicity (static	<i>v)</i> 0.48 mg/l (daphnia) (Toxicity to aquatic invertebrates)
Persistence and deg	gradability No further relevant information available.
Behaviour in envir	
	o tential No further relevant information available.
Mobility in soil No	further relevant information available.
Additional ecologic	al information:
General notes:	
Water hazard class	1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undilı	ted product or large quantities of it to reach ground water, water course or sewage system.
Results of PBT and	vPvB assessment
PBT: Not applicabl	
vPvB: Not applicab	
VPVD: NOI applicat	

(Contd. on page 7)

Date of issue: 13.03.2025

Revision: 13.03.2025

Trade name: Mosaic[™] Universal Composite (All Shades)

(Contd. of page 6)

13 Disposal considerations

· Waste treatment methods

· Recommendation

Dispose of contents/container in accordance with international, federal, state, and local regulations.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

Transport information		
UN-Number ADG, IMDG, IATA	not regulated	
UN proper shipping name ADG, ADN, IMDG, IATA	not regulated	
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 II 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

•	ingredients is listed.
	Inventory of Industrial Chemicals
1565-94-2	Bis - GMA
41637-38-1	EOBPADMA
72869-86-4	Diurethane Dimethacrylate
2530-85-0	Silane
109-16-0	Triethylene Glycol Dimethacrylate
25852-47-5	PEGDMA
128-37-0	Butylated Hydroxytoluene
13463-67-7	Titanium Dioxide
51274-00-1	Yellow Iron Oxide
	Chromium Iron Oxide
	(Contd. on pag

Date of issue: 13.03.2025

Revision: 13.03.2025

Trade name: Mosaic[™] Universal Composite (All Shades)

(Contd. of page 7)

1332-37-2 Red Iron Oxide

51274-00-1 Yellow Iron Oxide

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

· Australia: Priority Existing Chemicals

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 H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. 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 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 NIOSH: National Institute for Occupational Safety Acute toxicity - oral - Category 4: Acute toxicity - Category 4 Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2 Eye damage/irritation - Category 2A: Serious eye damage/eye irritation - Category 2A Skin sensitisation - Category 1: Skin sensitisation - Category 1 Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3 * * Data compared to the previous version altered.