ULTRADENT

Printing date 13.03.2025

Version number 1

Revision: 13.03.2025

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

· Product identifier

· Trade name: Mosaic[™] 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

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) :(800) 424-9300 (INTERNATIONAL) : +(703) 527-3887

2 Hazards identification

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



•	
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Label elements

· Labelling according to Regulation (EC) No 1272/2008 Void

• Hazard pictograms GHS07

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	(Contd. of page 1
Signal word Wa	urning
Hazard-determ	ining components of labelling:
Diurethane Dim	
Silane	·
Triethylene Gly	col Dimethacrylate
Hazard stateme	•
H315 Causes sk	rin irritation.
H319 Causes se	rious eye irritation.
	e an allergic skin reaction.
	e respiratory irritation.
H412 Harmful t	o aquatic life with long lasting effects.
Precautionary s	
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 / eye protection / face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
<i>P305+P351+P</i> .	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, i present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/internationa regulations.

3 Composition/information on ingredients

· Mixtures

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

· Dangerous compone	ents:		
	Diurethane Dimethacrylate	≥0-<40%	
EINECS: 276-957-5	🚸 Skin Sens. 1, H317; Aquatic Chronic 3, H412		
CAS: 2530-85-0	CAS: 2530-85-0 Silane		
EINECS: 219-785-8	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335		
CAS: 109-16-0	Triethylene Glycol Dimethacrylate	≥0-<12%	
EINECS: 203-652-6	Skin Sens. 1, H317		
CAS: 128-37-0	Butylated Hydroxytoluene	≥0-<3%	
	♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♦ Acute Tox. 4, H302		
Additional informati	on: 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.

• 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.

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· After eye contact:

- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult 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 Firefighting measures

- · Extinguishing media
- 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:

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. 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

· 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.
- · 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. Protect from heat See product labelling. Keep container tightly sealed.

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• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

128-37-0 Butylated Hydroxytoluene

- WEL Long-term value: 10 mg/m³
- Additional information: The lists valid during the making were used as basis.
- · 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. 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.

• 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 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

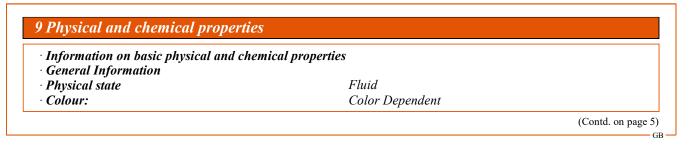
The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection



Tightly sealed goggles

· Body protection: Protective work clothing



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Odour:	Acrylic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.
pH	Not applicable (non-aqueous)
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	$1.9-2.1 \text{ g/cm}^3$
Relative density	Not determined.
Vapour density	Not determined.
environment, and on safety. Ignition temperature:	Product is not selfigniting.
	Product los not segigniling. Product does not present an explosion hazard.
Explosive properties: Change in condition	1 roduci does not present un explosion nazara.
Evaporation rate	Not determined.
•	ivoi uelermineu.
Information with regard to physical hazard classes	17 • 1
Explosives	Void Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable liquids Flammable solids	Void Void
Flammable liquids Flammable solids Self-reactive substances and mixtures	Void Void Void
Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids	Void Void Void Void
Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids	Void Void Void Void Void
Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures	Void Void Void Void Void Void
Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases	Void Void Void Void Void Void
Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	Void Void Void Void Void Void
Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids	Void Void Void Void Void Void Void
Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids	Void Void Void Void Void Void Void Void
Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids Organic peroxides	Void Void Void Void Void Void Void Void
Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases	Void Void Void Void Void Void Void Void

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10 Stability and reactivity

- · Reactivity Polymerization under the influence of light.
- · Chemical stability
- 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 hazard classes as defined in Regulation (EC) No 1272/2008 • Acute toxicity Based on available data, the classification criteria are not met.

		levant for classification: y Estimates)	
Oral	LD50	>87,972 mg/kg (rat)	
72869-8	6-4 Diureth	ane 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)	
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)	
Skin con Serious Respirat STOT-st Informa	eye damage tory or skin ingle exposi ttion on oth	ation Causes skin irritation. 2/irritation Causes serious eye irritation. sensitisation May cause an allergic skin reaction. ure May cause respiratory irritation.	
		l Hydroxytoluene	List

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10	-			C	
12.	HCO	logical	Th	orma	ากท
		Sicur	u y	0111111	

· Aquatic toxicity: 72869-86-4 Diurethane Dimethacrylate		
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 (stati	c) 0.48 mg/l (daphnia) (Toxicity to aquatic invertebrates)	
Bioaccumulative p Mobility in soil No Results of PBT and PBT: Not applicab vPvB: Not applicab Endocrine disrupti Other adverse effec Remark: Harmful u Additional ecologic General notes: Water hazard class	ble. ng properties For information on endocrine disrupting properties see section 11. c ts to fish	

13 Disposal considerations

• Waste treatment methods

· Recommendation

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

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

· UN number or ID number		
· ADR, IMDG, IATA	not regulated	
· UN proper shipping name		
· ADR, ÂDN, IMDG, IATA	not regulated	
· Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
· Class	not regulated	

[•] Uncleaned packaging:

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· Packing group · ADR, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not Applicable	
• Maritime transport in bulk according instruments	t o 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.

· 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
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.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
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

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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 Irrit. 2: Skin corrosion/irritation – Category 2	
<i>Eye Irrit. 2: Serious eye damage/eye irritation – Category 2</i>	
Skin Sens. 1: Skin sensitisation – Category 1	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	
\cdot * Data compared to the previous version altered.	