

Printing date 09/16/2021 Reviewed on 12/20/2017

1 Identification

- · Product identifier
- · Trade name: UltraSeal XTTM plus
- · Article number: SDS 25-001.16, XB/13560, XR/56303, XT/10952, XA/73401
- · Application of the substance / the mixture Professional Dental Pit and Fissure Sealant
- 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

- · Information department: 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



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.



GHS07

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

- · Label elements
- · GHS label elements Void
- · Hazard pictograms GHS07, GHS08
- · Signal word Warning
- · Health Hazard-determining components of labeling:

Triethylene Glycol Dimethacrylate

Diurethane Dimethacrylate

Organophosphine Oxide

· Hazard statements

May cause an allergic skin reaction.

Suspected of causing cancer. Route of exposure: Inhalation.

· Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with plenty of water.

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Safety Data Sheet acc. to OSHA HCS

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P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

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

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

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

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0 Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *0 Fire = 1Reactivity = 0

3 Composition/information on ingredients

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

· Dangerous components:			
658084-52-5	Lumilux Blue LZ		<60%
109-16-0	Triethylene Glycol Dimethacrylate	♦ Skin Sens. 1, H317	>10-≤25%
72869-86-4	Diurethane Dimethacrylate	♦ Skin Sens. 1, H317	>10- ≤ 25%
	Trade Secret	♦ Skin Corr. 1A, H314; Eye Dam. 1, H318	≥5-≤10%
1344-28-1	Aluminium Oxide		1-10%
3290-92-4	TMPTMA		1-10%
13463-67-7	Titanium Dioxide	🕸 Carc. 2, H351	≥0.1-<25%
162881-26-7	Organophosphine Oxide	🕩 Skin Sens. 1, H317	≥0.1-<1%

4 First-aid measures

- · Description of first aid measures
- · 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: 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.
- · 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.

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5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

Foam, dry chemical, carbon dioxide

Use fire fighting measures that suit the environment.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

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

Avoid contact with eyes, skin, and clothing. Use suitable protective equipment.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: See product labeling.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

See product labelling.

Keep receptacle tightly sealed.

· Specific end use(s) Professional Dental Pit and Fissure Sealant

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

658084-	52-5	Lumilu	v Rlue	1.7

TWA Short-term value: $10*3*mg/m^3$

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1344-28-1 A	1344-28-1 Aluminium Oxide			
PEL	Long-term value: 15*; 5** mg/m³ *Total dust; ** Respirable fraction			
REL	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.			
TLV	Long-term value: 1* mg/m³ as Al; *as respirable fraction			
3290-92-4 T	TMPTMA			
TWA	Short-term value: 1 mg/m³			
WEEL	Long-term value: 1 mg/m³ Skin			
13463-67-7	Titanium Dioxide			
ACGIH TLV	Short-term value: 10* 5 mg/m³			
PEL	Long-term value: 15* mg/m³ *total dust			
REL	See Pocket Guide App. A			
TLV	Long-term value: 10 mg/m³			
TWA	Short-term value: 15* 5 mg/m³			

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · 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.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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 is based 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.

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· Body protection: Protective work clothing

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Information on basic physical and c	hemical properties	
General Information		
Appearance: Form:	Liquid	
Color:	Shade dependent	
Odor:	Acrylic	
Odor threshold:	Not determined.	
pH-value:	Not applicable (non-aqueous)	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined	
Flash point:	>100 °C	
Flammability (solid, gaseous):	Not determined.	
Ignition temperature:	445 °C	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C:	0 hPa	
Density at 20 °C:	$1.7 - 1.8 \text{ g/cm}^3$	
Relative density	Not determined	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
VOC content:	1.00 %	
Solids content:	<60.0 %	
Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

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- · 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 Avoid light exposure
- · *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

man and a second	Acute toxicity.				
· LD/LC5	· LD/LC50 values that are relevant for classification:				
658084-	658084-52-5 Lumilux Blue LZ				
Oral	LD50	>20,000 mg/kg (rat)			
109-16-	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)			
72869-8	6-4 Diureth	ane Dimethacrylate			
Oral	LD50	>5,000 mg/kg (rat)			
1344-28	-1 Aluminii	um Oxide			
Oral	LD50	>5,000 mg/kg (rat)			
3290-92	-4 TMPTM	Ā			
Oral	LD50	>2,000 mg/kg (rat)			
	LC50 Fish	2 mg/l (Fish) (Toxicity to fish)			
Dermal	LD50	>2,000 mg/kg (rat) (Dermal test method)			
13463-6	13463-67-7 Titanium Dioxide				
Oral	LD50	>5,000 mg/kg (rat)			
Dermal	LD50	>5,000 mg/kg (rabbit)			
162881-26-7 Organophosphine 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)			

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

109-16-0 Triethylene Glycol Dimethacrylate		
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 D	Pimethacrylate	
EC50	>0.6 mg/kg (Algae)	
Biodegradability	28 days (Aerobic) (Biodegradability testing)	
3290-92-4 TMPTMA	•	
EC50	>9.22 mg/kg (daphnia)	
Biodegradability	28 days (Aerobic) (Biodegradability)	
Algae Toxicity	0.177 mg/l (Algae) (Toxicity to algae)	
13463-67-7 Titanium Dio	xide	
EC50	>100 mg/kg (Algae)	
	>1,000 mg/kg (Fish)	
162881-26-7 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.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (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:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

UN-Number		
DOT, ADN, IMDG, IATA	Not Regulated	
UN proper shipping name DOT, ADN, IMDG, IATA	Not Regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA		
Class	Not Regulated	
Packing group		
DOT, IMDG, IATA	Not Regulated	
Environmental hazards:	Not Applicable.	
Special precautions for user	Not Applicable	
Transport in bulk according to Annex	x II of	
MARPOL73/78 and the IBC Code	Not Applicable.	
UN "Model Regulation":	Not Regulated	

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara		
· Section 355 (extremely hazardous substances):		
None of the ingredients is listed.		
· Section 313 (Specific toxic chemical listings):		
1344-28-1 Aluminium Oxide		
TSCA (Toxic Substances Control Act):		
109-16-0 Triethylene Glycol Dimethacrylate	ACTIVE	
72869-86-4 Diurethane Dimethacrylate	ACTIVE	
1344-28-1 Aluminium Oxide	ACTIVE	
3290-92-4 TMPTMA	ACTIVE	
13463-67-7 Titanium Dioxide	ACTIVE	
162881-26-7 Organophosphine Oxide ACTIV		
· Hazardous Air Pollutants		
None of the inequalients is listed		

None of the ingredients is listed.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

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· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· ACGIH Carcinogenicity (American Conference of Governmental Industrial Hygienists)

1344-28-1 Aluminium Oxide

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

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.

- · Department issuing SDS: Environmental, Health, and Safety
- · Contact: Customer Service
- · Date of preparation / last revision 09/16/2021 / -
- · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

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

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

 ${\it Skin Sens. 1: Skin sensitisation-Category 1}$

Carc. 2: Carcinogenicity - Category 2