

Printing date 02/25/2025

Reviewed on 02/25/2025

## **1** Identification

- · Product identifier
- · Trade name: Mosaic<sup>TM</sup> 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 • 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

 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 GHS07 Skin Irritation 2 H315 Causes skin irritation. Eve Irritation 2A H319 Causes serious eye irritation. Sensitization - Skin 1 H317 May cause an allergic skin reaction. Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation. · Label elements · GHS label elements Void · Hazard pictograms GHS07 · Signal word Warning · Health Hazard-determining components of labeling: Diurethane Dimethacrylate Silane Triethylene Glycol Dimethacrylate · Hazard statements 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) US

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	(Contd. of page 1)
· Precautionary st	atements and a second se
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves / eye protection / face protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3	38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present
	and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

• Classification system:

· NFPA ratings (scale 0 - 4)

· HMIS-ratings (scale 0 - 4)

HEALTH 2	Health = 2
FIRE 0	Fire = 0
REACTIVITY 0	<i>Reactivity</i> $= 0$

## 3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous	components:	
72869-86-4	Diurethane Dimethacrylate	≥0-<40%
2530-85-0	Silane	≥0-<25%
109-16-0	Triethylene Glycol Dimethacrylate	≥0-<12%
128-37-0	Butylated Hydroxytoluene	≥0-<3%

# 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.

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• 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.
- After swallowing: If symptoms persist consult doctor.

· 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

• Extinguishing media

- Suitable extinguishing agents: Water spray, fog, or mist, foam, dry chemical, carbon dioxide Use fire fighting measures that suit the environment.
- · 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 protection against explosions and fires: 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.*

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Protect from heat See product labelling.

- *Keep receptacle tightly sealed.*
- Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

## · Control parameters

• Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

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

# 128-37-0 Butylated Hydroxytoluene

- REL Long-term value: 10 mg/m<sup>3</sup>
- TLV Long-term value:  $2* mg/m^3$

\*as inhalable fraction and vapor, A4

• 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. Avoid contact with the eyes and skin.
- 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.

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• Eye protection:

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Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and chemical properties     General Information     Appearance:     Form:   Paste     Color:   Color Dependent     Odor:   Acrypic     Odor threshold:   Not determined.     pH-value:   Not applicable (non-aqueous)     Change in condition   Undetermined.     Metting point/Metting range:   Undetermined.     Boiling point/Boiling range:   Undetermined.     Flash point:   Not applicable     Flash point:   Not applicable.     Decomposition temperature:   Not determined.     Ignition temperature:   Product is not selfigniting.     Danger of explosion:   Product does not present an explosion hazard.     Explosion limits:   Lower:     Lower:   Not determined.     Upper:   Not determined.     Vapor pressure:   Not determined.     Vapor pressure:   Not determined.     Vapor pressure:   Not determined.     Vapor or pressure:   Not determined.     Vapor or pressure:   Not determined.     Vapor or pressure:   Not determined.     Vapor density	Information on basis abusis-1 and	about an antiac
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	Kinematic:	Not determined

# 10 Stability and reactivity

• *Reactivity Polymerization under the influence of light.* 

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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
- Flames
- Light
- Heat

Oral

- · *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

## 11 Toxicological information

· Information on toxicological effects

#### • Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

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

72869-86-4 Diurethane Dimethacrylate

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

109-16-	0 Triethylen	e Glycol Dimethacrylate
Oral	ID50	>5000  mg/kg (rat)

orui		× 5,000 mg/ng (rui)
	LC50 Fish	16.4 mg/l (Fish) (Toxicity to fish)
ת 1	1050	> 2000 / ()

Dermal LD50 >2,000 mg/kg (mouse)

# 128-37-0 Butylated Hydroxytoluene

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 effect:

• on the skin: Irritant to skin and mucous membranes.

- on the eye: 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)

128-37-0 Butylated Hydroxytoluene

## · NTP (National Toxicology Program)

None of the ingredients is listed.

## **OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients is listed.

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2 Ecological info	rmation
· Toxicity	
• Aquatic toxicity:	
72869-86-4 Diuret	hane 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 Butylatea	l Hydroxytoluene
Aqua toxicity (stati	c) 0.48 mg/l (daphnia) (Toxicity to aquatic invertebrates)
· Persistence and de	gradability No further relevant information available.
· Behavior in enviro	
	otential No further relevant information available.
•	further relevant information available.
• Additional ecologie • General notes:	cal information:
	1 (Calf agg agg out), slightly have added for water
	<i>I (Self-assessment): slightly hazardous for water</i> <i>ited product or large quantities of it to reach ground water, water course or sewage system.</i>
Do not allow unall	

- · 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:

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

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

UN-Number DOT, IMDG, IATA	Not Regulated	
UN proper shipping name DOT, IMDG, IATA	Not Regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA		
Class	Not Regulated	

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· Packing group · DOT, IMDG, IATA	Not Regulated
· Environmental hazards:	Not Applicable.
· Special precautions for user	Not Applicable
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>II of</b> Not Applicable.

· UN "Model Regulation":

15 Regulatory information	
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	<b>th and environmental regulations/legislation specific for the substance</b> elevant information available.	e or mixture
· Section 355 (extremely hazardous substances):		
None of the ingredients is listed.		
· Section 313 (Specific toxic chemical listings):		
None of the ingredients is listed.		
· TSCA (Toxic Substances Control Act):		
72869-86-4	Diurethane Dimethacrylate	ACTIVE
2530-85-0	Silane	ACTIVE
109-16-0	Triethylene Glycol Dimethacrylate	ACTIVE
128-37-0	Butylated Hydroxytoluene	ACTIVE
· Hazardous Air Pollutants		
None of the ingredients is listed.		
· Proposition 65		
· Chemicals known to cause cancer:		

Not Regulated

None of the ingredients is listed.

· 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)

128-37-0 Butylated Hydroxytoluene

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

None of the ingredients is listed.

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· 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 02/25/2025 / -
- 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) 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 Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Sensitization - Skin 1: Skin sensitisation - Category 1 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 • \* Data compared to the previous version altered.