

Printing date 06/10/2025 Reviewed on 06/10/2025

1 Identification

- · Product identifier
- · Trade name: PermafloTM DC Base
- · Article number: SDS 45-001.11R01, 63544, 63592, 63593, 63594, 5915, 5914, 1006455, 5912, 5913, 1006453
- · 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): +1 (800) 424-9300 (INTERNATIONAL): +(703) 527-3887

2 Hazard(s) identification

· Classification of the substance or mixture



GHS07

Acute Toxicity - Inhalation 4 H332 Harmful if inhaled.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

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

Triethylene Glycol Dimethacrylate

Benzoyl Peroxide

· Hazard statements

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

· Precautionary statements

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

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a poison center/doctor if you feel unwell.

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.

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

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Safety Data Sheet acc. to OSHA HCS

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· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 0 Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



3 Composition/information on ingredients

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

· Dangerous components:			
109-16-0	Triethylene Glycol Dimethacrylate	≥1-≤25%	
	Trade Secret	>1-≤5%	
94-36-0	Benzoyl Peroxide	≤2.5%	

· Additional information:

The specific chemical identity of composition is being withheld as a trade secret. The specific chemical identity is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of paragraph §1910.1200.

4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

This product is a viscous gel, therefore chance of inhalation is extremely low.

Seek medical treatment in case of complaints.

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.
- · 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.

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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:

Wear fully protective suit.

Mouth respiratory protective device.

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:

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 heat

See product labelling.

Protect from exposure to the light.

Keep receptacle tightly sealed.

· Specific end use(s) Professional dental restorative material

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.

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

Trade Secret

TWA Short-term value: 0.8 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:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

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: Goggles recommended during refilling.
- · Body protection: Protective work clothing

9 Physical and chemical properties

· Information o	n hasic	nhysical	and chamica	al neonaetias
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· General Information

· Appearance:

Form: Gel

Color: According to product specification

· Odor: Acrylic

· Odor threshold: Not determined.

· pH-value: Not applicable (non-aqueous)

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Undetermined

Flash point:
Not applicable

Flammability:
Not applicable.

Decomposition temperature:
Not determined.

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		(Contd. of page
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C:	$1.8-2.1 \text{ g/cm}^3$	
Relative density	Not determined	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/	water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined	
Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity Polymerization occurs when exposed to amine catalysts, metal, or pressure.
- · 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 Visible light, ultraviolet light, and extreme 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:

109-16-0	Triethylene Glyco	l 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)	
Trade Sec	cret	'	
Oral	LD50	>15,000 mg/kg (mouse)	
		>3,300 mg/kg (rat)	
	LC50 Fish	>10,000 mg/l (Fish) (Toxicity to fish)	
Dermal	LD50	>5,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	0.139 mg/l (rat)	

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- 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:

Harmful Irritant

· Carcinogenic categories

· IARC (Inter	national Agency for Research on Cancer)	
94-36-0	Benzoyl Peroxide	3
128-37-0	Butylated Hydroxytoluene	3
	Co-Cr-AL Spinel Blue Green	2B
14808-60-7	Silica Glass	1
· NTP (Nation	nal Toxicology Program)	
14808-60-7	Silica Glass	K
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the	ingredients is listed.	

12 Ecological information

· Toxicity

· Aquatic toxicity:				
109-16-0 Triethy	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)			
Trade Secret	Trade Secret			
EC50	>1,000 mg/kg (daphnia)			
94-36-0 Benzoyl	94-36-0 Benzoyl Peroxide			
Algae Toxicity	0.0711 mg/l (Algae) (Toxicity to algae)			
	0.11 mg/l (daphnia) (Toxicity to aquatic invertebrates)			

- 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.

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- · 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.

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 MARPOL73/78 and the IBC Code	II of Not Applicable.	
UN "Model Regulation":	Not Regulated	

15 Regulatory information

94-36-0 Benzoyl Peroxide

- · 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	None of the ingredients is listed.			
· Section .	313 (Specific toxic chemical listings):			
	Trade Secret			
94-36-0	Benzoyl Peroxide			
	Co-Cr-AL Spinel Blue Green			
· TSCA (T	· TSCA (Toxic Substances Control Act):			
109-16-0	Triethylene Glycol Dimethacrylate	ACTIVE		

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ACTIVE

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(Contd. of page 7) · Hazardous Air Pollutants Co-Cr-AL Spinel Blue Green · Proposition 65 · Chemicals known to cause cancer: 14808-60-7 Silica Glass · 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: 64-17-5 Ethyl Alcohol · Carcinogenic categories · EPA (Environmental Protection Agency) None of the ingredients is listed. · ACGIH Carcinogenicity (American Conference of Governmental Industrial Hygienists) Trade Secret A464-17-5 Ethyl Alcohol A394-36-0 Benzoyl Peroxide A4128-37-0 Butylated Hydroxytoluene A4

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

14808-60-7 Silica Glass

14808-60-7 Silica Glass

· 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 06/10/2025 / -
- · 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

Acute Toxicity - Inhalation 4: Acute toxicity - Category 4

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Sensitization - Skin 1: Skin sensitisation – Category 1

* Data compared to the previous version altered.

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