



Safety Data Sheet acc. to OSHA HCS

Printing date 07/21/2026

Reviewed on 07/21/2026

1 Identification

· **Product identifier**

· **Trade name:** Permaflo™ - Permaflo™ Pink - Permaflo™ Purple

· **Article number:**

SDS 55-001.13R01, 76387, 94608, 72296, 94613, 10065, 94617, 76377, 94621, 94705, 94625, 94636, 76391, 76376, 94678, 76392, 35243, 35244, 94622, 35242

· **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
(800) 552-5512

· **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**



GHS08 Health hazard

Toxic to Reproduction 1B H360 May damage fertility or the unborn child.



GHS07

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

· **Label elements**

· **GHS label elements** Void

· **Hazard pictograms** GHS07, GHS08

· **Signal word** Danger

· **Health Hazard-determining components of labeling:**

Triethylene Glycol Dimethacrylate
Ethyl-4-Dimethylamino Benzoate
2-Hydroxyethyl Methacrylate
Diurethane Dimethacrylate
Organophosphine Oxide
Trade Secret

(Contd. on page 2)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 07/21/2026

Reviewed on 07/21/2026

Trade name: Permaflo™ - Permaflo™ Pink - Permaflo™ Purple

(Contd. of page 1)

Hazard statements

H317 May cause an allergic skin reaction.

H360 May damage fertility or the unborn child.

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.

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 = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 0

Fire = 1

Reactivity = 0

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	>10-<30%
868-77-9	2-Hydroxyethyl Methacrylate	>1-<10%
72869-86-4	Diurethane Dimethacrylate	>1-<5%
	Organophosphine Oxide	<1%
	Trade Secret	<1%
10287-53-3	Ethyl-4-Dimethylamino Benzoate	≥0.1<1%

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

After inhalation:

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

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 07/21/2026

Reviewed on 07/21/2026

Trade name: Permaflo™ - Permaflo™ Pink - Permaflo™ Purple

(Contd. of page 2)

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 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.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

Water spray

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 self-contained respiratory protective device.

Wear fully protective suit.

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**

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· **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:** No special requirements.

· **Information about storage in one common storage facility:** Not required

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 07/21/2026

Reviewed on 07/21/2026

Trade name: Permaflo™ - Permaflo™ Pink - Permaflo™ Purple

(Contd. of page 3)

- **Further information about storage conditions:**
 - See product labelling.
 - Store in a cool place.
 - Store in the dark.
 - 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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Do not eat, drink, smoke or sniff while working.
 - 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:** Goggles recommended during refilling.
- **Body protection:** Protective work clothing

US

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 07/21/2026

Reviewed on 07/21/2026

Trade name: Permaflo™ - Permaflo™ Pink - Permaflo™ Purple

(Contd. of page 4)

9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Gel
Color:	Color 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:	213 °C
· Flash point:	106 °C
· Flammability:	Not applicable
· Auto igniting:	255 °C
· Decomposition temperature:	Not determined
· 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 at 20 °C:	0 hPa
· Density:	Not determined
· 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** No further relevant information available.
- **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**
 - Light
 - Flames
 - Ignition sources

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 07/21/2026

Reviewed on 07/21/2026

Trade name: Permaflo™ - Permaflo™ Pink - Permaflo™ Purple

(Contd. of page 5)

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:**

- **LD/LC50 values that are relevant for classification:**

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)

868-77-9 2-Hydroxyethyl Methacrylate

Oral	LD50	3,275 mg/kg (mouse)
		>5,000 mg/kg (rat)
	LC50 Fish	>100 mg/l (Fish)
Dermal	LD50	>3,000 mg/kg (rabbit)
	LC50(Daphnia magna)	24.1 mg/l (daphnia)

72869-86-4 Diurethane Dimethacrylate

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

Trade Secret

Oral	LD50	1,550 mg/kg (rat)
	LC50 Fish	19 mg/l (Fish)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	96 mg/l (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)**

	Co-Cr-AL Spinel Blue Green	2B
14808-60-7	Silica Glass	I

- **NTP (National Toxicology Program)**

14808-60-7	Silica Glass	K
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(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 07/21/2026

Reviewed on 07/21/2026

Trade name: Permaflo™ - Permaflo™ Pink - Permaflo™ Purple

(Contd. of page 6)

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

None of the ingredients is listed.

12 Ecological information

· **Toxicity**· **Aquatic 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)

868-77-9 2-Hydroxyethyl Methacrylate

EC50	345 mg/kg (Algae)
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72869-86-4 Diurethane Dimethacrylate

EC50	>0.6 mg/kg (Algae)
Biodegradability	28 days (Aerobic) (Biodegradability testing)

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)

Trade Secret

EC50	42 mg/kg (Algae)
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· **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:**

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

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

US

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 07/21/2026

Reviewed on 07/21/2026

Trade name: Permaflo™ - Permaflo™ Pink - Permaflo™ Purple

(Contd. of page 7)

14 Transport information

· 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 II of MARPOL 73/78 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):	Trade Secret	
	Co-Cr-AL Spinel Blue Green	
· TSCA (Toxic Substances Control Act):		
109-16-0	Triethylene Glycol Dimethacrylate	ACTIVE
868-77-9	2-Hydroxyethyl Methacrylate	ACTIVE
72869-86-4	Diurethane Dimethacrylate	ACTIVE
	Organophosphine Oxide	ACTIVE
	Trade Secret	ACTIVE
10287-53-3	Ethyl-4-Dimethylamino Benzoate	ACTIVE
· 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.	

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

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Reviewed on 07/21/2026

Trade name: Permaflo™ - Permaflo™ Pink - Permaflo™ Purple

(Contd. of page 8)

· Chemicals known to cause developmental toxicity:

64-17-5	Ethyl Alcohol
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· Carcinogenic categories
· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· ACGIH Carcinogenicity (American Conference of Governmental Industrial Hygienists)

	Trade Secret	A4
64-17-5	Ethyl Alcohol	A3
14808-60-7	Silica Glass	A2

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

14808-60-7	Silica Glass
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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:** Regulatory Compliance

· **Contact:** Customer Service

· **Date of preparation / last revision** 07/21/2026 / -

· 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

Sensitization - Skin 1: Skin sensitisation – Category 1

Toxic to Reproduction 1B: Reproductive toxicity – Category 1B

· *** Data compared to the previous version altered.**