

Safety Data Sheet according to WHS Regulations

Date of issue: 28.07.2026

Revision: 28.07.2026

1 Identification

- **Other means of identification**
- **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
- **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
(800) 552-5512

Ultradent Australia Pty Ltd.
Level 22/2 Market Street
Sydney NSW 2000
Australia
Email: info.anz@ultradent.com
Toll Free: 1-800-290929
- **Further information obtainable from:** 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

Skin sensitisation – Category 1 H317 May cause an allergic skin reaction.

- **Additional information:** The full text of the classification and labelling elements mentioned is given in Section 16.

- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** GHS07
- **Signal word** Warning
- **Hazard-determining components of labelling:**
Triethylene Glycol Dimethacrylate (>10-<30 %)
2-Hydroxyethyl Methacrylate (>1-<10 %)
Diurethane Dimethacrylate (>1-<5 %)
- **Hazard statements**
H317 May cause an allergic skin reaction.

(Contd. on page 2)

Safety Data Sheet

according to WHS Regulations

Date of issue: 28.07.2026

Revision: 28.07.2026

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

(Contd. of page 1)

· Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read label before use.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P321 Specific treatment (see on this label).
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

109-16-0	Triethylene Glycol Dimethacrylate	>10-<30%
	⚠ Skin sensitisation – Category 1, H317	
868-77-9	2-Hydroxyethyl Methacrylate	>1-<10%
	⚠ Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Skin sensitisation – Category 1, H317	
72869-86-4	Diurethane Dimethacrylate	>1-<5%
	⚠ Skin sensitisation – Category 1, H317	
	Organophosphine Oxide	<1%
	⚠ Skin sensitisation – Category 1, H317	
	Trade Secret	<1%
	⚠ Acute toxicity - oral – Category 4, H302; Acute toxicity - dermal – Category 4, H312; Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Skin sensitisation – Category 1, H317; Flammable liquids – Category 4, H227	
10287-53-3	Ethyl-4-Dimethylamino Benzoate	≥0.1<1%
	⚠ Reproductive toxicity – Category 1B, H360	

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

· **General information:** Immediately remove any clothing soiled by the product.

· After inhalation:

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

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.

(Contd. on page 3)

Safety Data Sheet

according to WHS Regulations

Date of issue: 28.07.2026

Revision: 28.07.2026

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

(Contd. of page 2)

- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire Fighting Measures

- **Suitable extinguishing agents:**
Water spray
Foam, dry chemical, carbon dioxide
Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **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.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **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:**
See product labelling.
Store in a cool place.
Store in the dark.
Protect from exposure to the light.
- **Specific end use(s)** Professional dental restorative material

8 Exposure controls and personal protection

- **Appropriate engineering controls** No further data; see section 7.

(Contd. on page 4)

Safety Data Sheet

according to WHS Regulations

Date of issue: 28.07.2026

Revision: 28.07.2026

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

(Contd. of page 3)

- **Ingredients 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 valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Do not eat, drink, smoke or sniff while working.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
- **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.
- **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 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

- **General Information**
- **Appearance:**
- **Form:** Gel
- **Colour:** Color Dependent
- **Odour:** Acrylic
- **Odour threshold:** Not determined
- **pH-value:** Not applicable (non-aqueous)
- **Change in condition**
- **Melting point/freezing point:** Undetermined
- **Initial boiling point and boiling range:** 213 °C
- **Flash point:** 106 °C
- **Flammability** Not applicable
- **Auto-ignition temperature:** 255 °C
- **Decomposition temperature:** Not determined
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
- **Lower:** Not determined
- **Upper:** Not determined

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Date of issue: 28.07.2026

Revision: 28.07.2026

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

(Contd. of page 4)

- **Vapour pressure at 20 °C:** 0 hPa
- **Density:** Not determined
- **Relative density** Not determined
- **Vapour 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**
- **Particle characteristics** Not applicable
- **Physical state** Liquid

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **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
 - 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** Based on available data, the classification criteria are not met.

· LD/LC50 values 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)
------	------	--------------------

(Contd. on page 6)

Safety Data Sheet

according to WHS Regulations

Date of issue: 28.07.2026

Revision: 28.07.2026

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

(Contd. of page 5)

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:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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)
------	-------------------

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)
------	------------------

- **Persistence and degradability** No further relevant information available.
- **Behaviour 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 (German Regulation) (Self-assessment): slightly hazardous for water

(Contd. on page 7)

Safety Data Sheet

according to WHS Regulations

Date of issue: 28.07.2026

Revision: 28.07.2026

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

(Contd. of page 6)

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 packaging:**

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

14 Transport information

· **UN-Number**

· **ADG, ADN, IMDG, IATA** not regulated

· **UN proper shipping name**

· **ADG, ADN, IMDG, IATA** not regulated

· **Transport hazard class(es)**

· **ADG, ADN, IMDG, IATA**

· **Class** not regulated

· **Packing group**

· **ADG, IMDG, IATA** not regulated

· **Environmental hazards:**

Not applicable

· **Special precautions for user**

Not Applicable

· **Transport in bulk according to Annex II of Marpol 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**

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

14808-60-7 Silica Glass

· **Australian Inventory of Industrial Chemicals**

109-16-0 Triethylene Glycol Dimethacrylate

868-77-9 2-Hydroxyethyl Methacrylate

72869-86-4 Diurethane Dimethacrylate

Trade Secret

64-17-5 Ethyl Alcohol

2530-85-0 Silane

(Contd. on page 8)

Safety Data Sheet

according to WHS Regulations

Date of issue: 28.07.2026

Revision: 28.07.2026

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

(Contd. of page 7)

10163-15-2	Sodium Monofluorophosphate
	Organophosphine Oxide
10287-53-3	Ethyl-4-Dimethylamino Benzoate
10373-78-1	Camphorquinone
1332-37-2	Red Iron Oxide
68187-51-9	V-9115 Buff Pigment
	Chromium Iron Oxide
51274-00-1	Yellow Iron Oxide
	Co-Cr-AL Spinel Blue Green
14808-60-7	Silica Glass

· Standard for the Uniform Scheduling of Medicines and Poisons

868-77-9	2-Hydroxyethyl Methacrylate	S5
----------	-----------------------------	----

· Australia: Priority Existing Chemicals

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

H227 Combustible liquid.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H360 May damage fertility or the unborn child.

· Department issuing SDS: Regulatory Compliance
· 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

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)

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

Flammable liquids – Category 4: Flammable liquids – Category 4

Acute toxicity - oral – Category 4: Acute toxicity – Category 4

Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2

Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A

Skin sensitisation – Category 1: Skin sensitisation – Category 1

Reproductive toxicity – Category 1B: Reproductive toxicity – Category 1B

· * Data compared to the previous version altered.