



Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name: Permaflo™ - Permaflo™ Pink - Permaflo™ Purple

Manufacturer: Ultradent

SDS Expiry: 4 August 2028

Supplier Details: Henry Schein New Zealand

243-249 Bush Road, Rosedale, Auckland, 0632 PO Box 101 140, North Shore, Auckland 0745

Ph. 0800 808 855

www.henryschein.co.nz

Emergency Contacts: Poisons/Hazardous Chemical Info Centre –

0800POISON/0800764766 (24 Hours) Phone 111 for Fire, Ambulance or Police

HSNO Class/Category: 6

HSNO Group Standard: Dental Products Subsidiary Hazard Group Standard 2020

HSR002558

Statements/Pictograms: As per attached Safety Data Sheet (SDS)

Date Prepared: This coversheet was prepared – September 2023

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.





Printing date 04.08.2023 Revision: 04.08.2023

### 1 Identification

- · Product identifier
- · Trade name: Permaflo<sup>TM</sup> Permaflo<sup>TM</sup> Pink Permaflo<sup>TM</sup> Purple
- · Article number:

SDS 55-001.11R02, 10065, 72296, 76377, 76387, 94608, 94613, 94617, 94621, 94625, 94630, 94636, 94705

· 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

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): (800) 424-9300 (INTERNATIONAL): +(703) 527-3887

#### 2 Hazard(s) Identification

· Classification of the substance or mixture



Skin Irrit. 2 H315 Causes skin irritation.

Serious eye damage/irritation – Category 2A H319 Causes serious eye irritation.

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

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

Triethylene Glycol Dimethacrylate 2-Hydroxyethyl Methacrylate

Diurethane Dimethacrylate

· Hazard statements

H315 Causes skin irritation.

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H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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 / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

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 co	omponents:	
109-16-0	Triethylene Glycol Dimethacrylate	>10-<30%
	♦ Skin Sens. 1, H317	
2530-85-0	Silane	>10-<30%
	♦ Skin Irrit. 2, H315; Serious eye damage/irritation − Category 2A, H319; STOT SE 3, H335	
868-77-9	2-Hydroxyethyl Methacrylate	>1-<10%
	♦ Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; Skin Sens. 1, H317	
72869-86-4	Diurethane Dimethacrylate	>0.1-<5%
	<b>♦</b> Skin Sens. 1, H317	-
13463-67-7	Titanium Dioxide	>0.1-<5%
	<b>♦</b> Carc. 2, H351	
	Trade Secret	<1%
	♠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; Skin Sens. 1, H317; Flam. Liq. 4, H227	
162881-26-7	Organophosphine Oxide	<1%
	<b>♦</b> Skin Sens. 1, H317	

<sup>·</sup> 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.

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· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · 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

· 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 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:

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.

Keep container tightly sealed.

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· Specific end use(s) Professional dental restorative material

#### 8 Exposure controls and personal protection

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

#### 13463-67-7 Titanium Dioxide

WES Long-term value: 10 mg/m³

inhalable dust

- · 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.

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.

· 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:



Tightly sealed goggles

· Body protection: Protective work clothing

### 9 Physical and Chemical Properties

- · General Information
- · Appearance:

· Form: Gel

· Color Dependent

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· 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 (solid, gas): Not applicable.

• Ignition temperature: 255 °C
• Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard.

· Explosion limits:

· Lower: Not determined. · Upper: Not determined.

· 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 No further relevant information available.

#### 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	Triethvlene	Glycol Dia	methacrylate

Oral	LD50	>5,000 mg/kg (rat)
	LC50 Fish	16.4 mg/l (Fish) (Toxicity to fish)

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Dermal	LD50	>2,000 mg/kg (mouse)
868-77-92	2-Hydroxyethyl Methacr	ylate
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 Dimethaci	rylate
Oral	LD50	>5,000 mg/kg (rat)
13463-67-	7 Titanium Dioxide	
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Trade Sec	ret	
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)
162881-26	5-7 Organophosphine Ox	xide
Oral	LD50	>2,000 mg/kg (rat)
	LC50 Fish	>0.09 mg/l (Fish) (Toxicity to fish)
Dermal	LD50	>2,000 mg/kg (rat)
	•	

- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · 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

109-16-0 Triethylene Gly	col 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 L	Dimethacrylate	
EC50	>0.6 mg/kg (Algae)	
Biodegradability	28 days (Aerobic) (Biodegradability testing)	

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13463-67-7 Titanium Dioxide	
EC50	>100 mg/kg (Algae)
	>100 mg/kg (Algae) >1,000 mg/kg (Fish)
Trade Secret	
EC50	42 mg/kg (Algae)
162881-26-7 Organophosphine O	xide
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.
- · 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 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.

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	

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not regulated

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· Transport in bulk according to Annex II of Marpol

and the IBC Code Not applicable.

### 15 Regulatory information

· UN "Model Regulation":

Safety, health and environmental regulations/legislation specific for the substance or mixture

· Australian In	· Australian Inventory of Industrial Chemicals		
65997-17-3	Inorganic Glass		
109-16-0	Triethylene Glycol Dimethacrylate		
2530-85-0	Silane		
868-77-9	2-Hydroxyethyl Methacrylate		
	Trade Secret		
72869-86-4	Diurethane Dimethacrylate		
13463-67-7	Titanium Dioxide		
10163-15-2	Sodium Monofluorophosphate		
	Trade Secret		
10287-53-3	Ethyl-4-Dimethylamino Benzoate		
162881-26-7	Organophosphine Oxide		
1332-37-2	Red Iron Oxide		
68187-51-9	Zinc Ferrite Brown Spinel		
51274-00-1	Yellow Iron Oxide		
12737-27-8	Chromium Iron Oxide		
	Co-Cr-AL Spinel Blue Green		
10373-78-1	Camphorquinone		
14808-60-7	Silica Glass		
. Standard for	· Standard for the Uniform Scheduling of Medicines and Poisons		

#### · Standard for the Uniform Scheduling of Medicines and Poisons

868-77-9 2-Hydroxyethyl Methacrylate

· 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.

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H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

- · Department issuing SDS: Environmental, Health, and Safety
- · 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

Flam. Liq. 4: Flammable liquids - Category 4

Acute Tox. 4: Acute toxicity - Category 4

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

Serious eye damage/irritation - Category 2A: Serious eye damage/eye irritation - Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

\* Data compared to the previous version altered.

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