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Safety Data Sheet according to WHS Regulations

Printing date 04.08.2023

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Revision: 04.08.2023

Product identifier	
Trade name: Permaflo [™] - Perm	aflo TM Pink - Permaflo TM Purple
Relevant identified uses of the su Professional Dental Restorative M	5, 76377, 76387, 94608, 94613, 94617, 94621, 94625, 94630, 94636, 94705 bstance or mixture and uses advised against Material e mixture Professional Dental Restorative Material
Details of the supplier of the safe Manufacturer/Supplier: Ultradent Products, Inc. 505 W. Ultradent Drive (10200 S) South Jordan, UT 84095-3942 USA	
onlineordersupport@ultradent.co Ultradent Australia Pty Ltd. Level 22/2 Market Street Sydney NSW 2000 Australia Email: info.anz@ultradent.com Toll Free: 1-800-290929	<i>m</i>
) :(800) 424-9300
<i>Emergency telephone number:</i> <i>CHEMTREC (NORTH AMERICA (INTERNATIONAL)</i>) :(800) 424-9300
Emergency telephone number: CHEMTREC (NORTH AMERICA (INTERNATIONAL) Hazard(s) Identification) :(800) 424-9300 : +(703) 527-3887
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Emergency telephone number: CHEMTREC (NORTH AMERICA (INTERNATIONAL) Hazard(s) Identification Classification of the substance of Skin Irrit. 2 Serious eye damage/irritation – C) :(800) 424-9300 : +(703) 527-3887 r mixture
Emergency telephone number: CHEMTREC (NORTH AMERICA (INTERNATIONAL) Hazard(s) Identification Classification of the substance of Skin Irrit. 2 Serious eye damage/irritation – C Skin Sens. 1 Label elements GHS label elements Void Hazard pictograms GHS07) : (800) 424-9300 : +(703) 527-3887 r mixture H315 Causes skin irritation. Yategory 2A H319 Causes serious eye irritation.
(INTERNATIONAL)) : (800) 424-9300 : +(703) 527-3887 r mixture H315 Causes skin irritation. Sategory 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

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H319 Causes serior	us eye irritation.
H317 May cause an	n allergic skin reaction.
Precautionary stat	ements
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.
<i>P333+P313</i>	If skin irritation or rash occurs: Get medical advice/attention.
<i>P337+P313</i>	<i>If eye irritation persists: Get medical advice/attention.</i>
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.

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 Skin Sens. 1, H317		
13463-67-7	Titanium Dioxide	>0.1-<5%	
	🗞 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%	
	♦ Skin Sens. 1, H317		

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

General Information		
Appearance:	Cal	
Form: Colour:	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:		
· Viscosity:		
· Dynamic:	Not determined.	
· Kinematic:	Not determined.	
· Other information	No further relevant information available.	

10 Stability and Reactivity

- 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 LC50 Fish >5,000 mg/kg (rat) (Contd. on page 6)

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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	-7 Organophosphine Ox	kide
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 corro	sion/irritation Causes sk	tin irritation.

kin 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

• Aquatic 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 I	Dimethacrylate
EC50	>0.6 mg/kg (Algae)
Biodegradability	28 days (Aerobic) (Biodegradability testing)
	(Contd. on page

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13463-67-7 Titanium D	(Contd. of page
EC50	>100 mg/kg (Algae)
	>1,000 mg/kg (Fish)
Trade Secret	
EC50	42 mg/kg (Algae)
162881-26-7 Organoph	osphine 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 Plan	ts (static) >0.26 mg/l (Plant) (Toxicity to algae)
Do not allow undiluted p Results of PBT and vPv PBT: Not applicable. vPvB: Not applicable.	erman Regulation) (Self-assessment): slightly hazardous for water product or large quantities of it to reach ground water, water course or sewage system. B assessment o further relevant information available.
Disposal considerat Waste treatment method Recommendation	ls
Dispose of contents/cont Uncleaned packaging:	ainer in accordance with international, federal, state, and local regulations.

• **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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· Transport in bulk according to Annex II of Marp	ol
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

• Australian In	wentory 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	the Uniform Scheduling of Medicines and Poisons	-
868-77-9 2-1	Hydroxyethyl Methacrylate State Stat	S
· Australia: Pr	iority Existing Chemicals	-
None of the in	ngredients 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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ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the Internation Carriage of Dangerous Goods by Road)	(Coi	ntd. of page 8)
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 Internation 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 Ist 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 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Serious eye damage/irritation – Category 1	H317 May cause an allergic skin reaction.	,
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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 Internation Carriage of Dangerous Goods by Road) MDG: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IATA: 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 PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative Flam. Lig. 4: Flammable liquids – Category 4 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 23 Serious eye damage/irritation – Category 21. Serious eye damage/ir		
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Skin Sens. 1: Skin sensitisation – Category 1		
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Carc, 2: Carcinogenicity – Category 2	0,	
	0 2 0 2	
	STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
* Data compared to the previous version altered.	* Data compared to the previous version altered.	