



Safety Data Sheet according to WHS Regulations

Date of issue: 20.04.2026

Revision: 20.04.2026

1 Identification

- **Other means of identification**
- **Trade name:** Permaflo™ DC Base
- **Article number:** SDS 45-001.13R01, 63544, 63592, 63593, 5915, 5914, 5912, 1006455
- **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

Acute toxicity - inhalation – Category 4 H332 Harmful if inhaled.
Skin sensitisation – Category 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 (≥10-<30 %)
- **Hazard statements**
H332 Harmful if inhaled.
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.

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- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 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 ⚠ Skin sensitisation – Category 1, H317 | ≥10-<30% |
| 94-36-0 | Benzoyl Peroxide ⚠ ⚠ Self-reactive substances and mixtures – Type B, H241; Organic peroxides – Type B, H241; ⚠ Eye damage/irritation – Category 2A, H319; Skin sensitisation – Category 1, H317 | ≤2.5% |

- **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.
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.

5 Fire Fighting Measures

- **Suitable extinguishing agents:**
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 fully protective suit.

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Mouth respiratory protective device.

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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 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:**
Protect from heat
See product labelling.
Protect from exposure to the light.
Keep container tightly sealed.
- **Specific end use(s)** Professional dental restorative material

8 Exposure controls and personal protection

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

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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:**

According to product specification

- **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:**

Undetermined

- **Flash point:**

Not applicable

- **Flammability**

Not applicable

- **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

- **Vapour pressure:**

Not determined

- **Density at 20 °C:**

1.8-2.1 g/cm³

- **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

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10 Stability and Reactivity

- **Reactivity** Polymerization occurs when exposed to amine catalysts, metal, or pressure.
- **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** Harmful if inhaled.

- **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) |

94-36-0 Benzoyl Peroxide

| | | |
|------------|----------------------|--|
| Oral | LD50 | >5,000 mg/kg (rat) |
| | LC50 Fish | 0.0602 mg/l (Fish) (Toxicity to fish) |
| Inhalative | LD50 Inhalation 4hrs | 24.3 mg/l (rat) (Testing of Chemicals Acute Toxicity Inhalation) |

- **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) |

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.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.

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- **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.

14 Transport information

| | |
|--|----------------|
| <ul style="list-style-type: none"> · UN-Number · ADG, ADN, IMDG, IATA | not regulated |
| <ul style="list-style-type: none"> · UN proper shipping name · ADG, ADN, IMDG, IATA | not regulated |
| <ul style="list-style-type: none"> · Transport hazard class(es) · ADG, ADN, IMDG, IATA · Class | not regulated |
| <ul style="list-style-type: none"> · Packing group · ADG, IMDG, IATA | not regulated |
| <ul style="list-style-type: none"> · Environmental hazards: | Not applicable |
| <ul style="list-style-type: none"> · Special precautions for user | Not Applicable |
| <ul style="list-style-type: none"> · Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable |
| <ul style="list-style-type: none"> · UN "Model Regulation": | not regulated |

15 Regulatory information

| | |
|---|--|
| <ul style="list-style-type: none"> · Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| <ul style="list-style-type: none"> · NIOSH-Ca (National Institute for Occupational Safety and Health) | 14808-60-7 Silica Glass |
| <ul style="list-style-type: none"> · Australian Inventory of Industrial Chemicals | 109-16-0 Triethylene Glycol Dimethacrylate |
| | Trade Secret |
| 64-17-5 Ethyl Alcohol | |

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| | |
|------------|----------------------------|
| 2530-85-0 | Silane |
| 94-36-0 | Benzoyl Peroxide |
| 128-37-0 | Butylated Hydroxytoluene |
| 68187-51-9 | V-9115 Buff Pigment |
| | Co-Cr-AL Spinel Blue Green |
| 14808-60-7 | Silica Glass |
| 1332-37-2 | Red Iron Oxide |
| 51274-00-1 | Yellow Iron Oxide |

· Standard for the Uniform Scheduling of Medicines and Poisons

| | | |
|---------|------------------|------------|
| 94-36-0 | Benzoyl Peroxide | S2, S4, 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

H241 Heating may cause a fire or explosion.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

· 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

Self-reactive substances and mixtures – Type B: Self-reactive substances and mixtures – Type B

Organic peroxides – Type B: Organic peroxides – Type B

Acute toxicity - inhalation – Category 4: Acute toxicity – Category 4

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

Skin sensitisation – Category 1: Skin sensitisation – Category 1

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