

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Dental Use



Date Issued : 04/14/2006

SDS No : 45-001.6

Date Revised : 04/28/2015

Revision No : 6

PermaFlo® DC Base**SECTION 1 : Identification of the substance/preparation and of the company/undertaking****1.1. Product identifier**

Product code : RD/63594, RE/63593, RO/63544,RX/63592
Product name : PermaFlo® DC Base
Product description : Dual Cure Composite Luting / Restorative Resin

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Professional Dental Restorative Material

1.3. Details of the supplier of the safety data sheet**Manufacturer**

Ultradent Products, Inc.
 505 W. 10200 S.
 South Jordan, UT 84095

Distributor

Ultradent Products GmbH
 Am Westhover Berg 30
 51149 Cologne Germany
 Email: infoDE@ultradent.com
Emergency Phone : +49(0)2203-35-92-0

1.4. Emergency telephone number

CHEMTREC (NORTH AMERICA) :(800) 424 - 9300
(INTERNATIONAL) :+1(703) 527 - 3887

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Directive 1999/45/EC**

: The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Danger symbols : Xi

R phrases : R43,R36/38

Classification according to Regulation (EC) No 1272/2008 [CLP]

Health : Eye Irritation
 Skin Sensitization

2.2. Label elements**Classification according to Directive 1999/45/EC**

Hazard pictogram(s) : Xi



Irritant

R&S statement(s) : R43: May cause sensitization by skin contact.
 R36/38: Irritating to eyes and skin.


Classification according to Regulation (EC) No 1272/2008 [CLP]

SAFETY DATA SHEET
 according to Regulation (EC) No. 453/2010
 Dental Use

ULTRADENT
 PRODUCTS, INC.

Date Issued : 04/14/2006
 SDS No : 45-001.6
 Date Revised : 04/28/2015
 Revision No : 6

PermaFlo® DC Base

Hazard pictogram(s)	:	
		Exclamation mark
Signal Word	:	WARNING
Hazard statement(s)	:	H319: Causes serious eye irritation. H317: May cause an allergic skin reaction.
Precautionary statement(s)		
Prevention	:	P280: Wear protective gloves/protective clothing/eye protection/face protection.
Response	:	P305: IF IN EYES: P351: Rinse cautiously with water for several minutes. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P332+P313: If skin irritation occurs: Get medical advice/attention.
Storage	:	P273: Avoid release to the environment.
Disposal	:	P501: Dispose of in compliance with governmental regulation.(EC 1975L0442-20/11/2003)

2.3. Other hazards

Immediate concerns : None

SECTION 3: Composition / information on ingredients

3.1. Substances

Not Applicable

3.2. Mixtures

Chemical Name	CAS	EINECS No.	Wt.%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No 1272/2008 [CLP]
Triethylene Glycol Dimethacrylate	109-16-0	203-652-6	< 25	Xi; R43	H317
Bis GMA	1565-94-2	216-367-7	< 15	Xi; R36/37/38; R22	H302; H315; H317; H318; H335; H412

For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Following eyes : Hold eyelids apart and flush eyes with plenty of water for at least 15

SAFETY DATA SHEET
 according to Regulation (EC) No. 453/2010
 Dental Use



Date Issued : 04/14/2006
SDS No : 45-001.6
Date Revised : 04/28/2015
Revision No : 6

PermaFlo® DC Base

minutes.

- Following skin** : Wash with soap and water. Get medical attention if irritation develops or persists.
- Following ingestion** : If swallowed in small quantity the product is harmless, otherwise consult a doctor.
- Following inhalation** : No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

4.2. Most important symptoms and effects, both acute and delayed

- Eyes** : Causes eye irritation.
- Skin** : May cause sensitization to skin.
- Ingestion** : None expected for this product.
- Inhalation** : None expected for this product.

4.3. Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Not Applicable

SECTION 5: Fire fighting measures

5.1. Extinguishing media

- Extinguishing media** : Please see Fire Fighting Equipment under Section 5.3.

5.2. Special hazards arising from the substance or mixture

- Explosion hazards** : Not Determined
- Fire explosion** : Not Determined
- Sensitive to static discharge** : Not Determined
- Sensitivity to impact** : Not Determined

5.3. Advice for firefighters

- Fire fighting procedures** : General: Evacuate all personnel; use protective equipment for fire-fighting. Use self-contained breathing apparatus when the product is involved in fire.
- Fire fighting equipment** : Foam, dry chemical, carbon dioxide (CO₂).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General procedures** : Refer to Section 8 for Personal Protective Equipment.

6.2. Environmental precautions

- Water spill** : Do not allow to enter sewers or drains that may lead to waterways.

6.3. Methods and material for containment and cleaning up

- Small spill** : Wipe up small amounts with chemical resistant or damp rag which is washed with large amounts of water after each use. After cleaning,

SAFETY DATA SHEET
 according to Regulation (EC) No. 453/2010
 Dental Use



Date Issued : 04/14/2006
SDS No : 45-001.6
Date Revised : 04/28/2015
Revision No : 6

PermaFlo® DC Base

Large spill : flush away traces with water.
 : Absorb with inert, damp non-combustible material, then flush area with water.

6.4. Reference to other sections

Reference to other sections : Not Applicable

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling : Keep away from heat sources and direct sunlight.

Storage : See product labeling.

7.2. Conditions for safe storage, including any incompatibilities

Shelf life : See product labeling

7.3. Specific end use(s)

Specific end use(s) : Professional Dental Restorative Material

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Control parameters : Not Determined

8.2. Exposure controls

Eye/face protection : Wear eye protection

Skin protection : Wear suitable protective clothing and gloves.

Respiratory protection : Good general ventilation should be sufficient to control airborne levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Viscous substance

Colour : Shade dependent.

Odour : Acrylic

9.2. Other information

Percent volatile : Not Determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity : Polymerization occurs when exposed to visible light, ultraviolet light or extreme heat.

10.2. Chemical stability

Chemical stability : Stable when stored and handled under recommended conditions.

10.3. Possibility of hazardous reactions

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Dental Use



Date Issued : 04/14/2006
SDS No : 45-001.6
Date Revised : 04/28/2015
Revision No : 6

PermaFlo® DC Base**Hazardous polymerization** : None**10.4. Conditions to avoid****Conditions to avoid** : Not Determined**10.5. Incompatible materials****Incompatible materials** : Not Determined**10.6. Hazardous decomposition products****Hazardous decomposition products** : Not Determined**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute****Notes** : Device is biocompatible when used as directed by dental professionals per ISO 10993-1.**SECTION 12: Ecological information****12.1. Toxicity****Aquatic toxicity (acute)** : Do not allow to enter sewers or drains that may lead to waterways.**96-hour LC₅₀** : Not Determined**48-hour EC₅₀** : Not Determined**96-hour EC₅₀** : Not Determined**12.2. Persistence and degradability****Persistence and degradability** : Not Determined**12.3. Bioaccumulative potential****Bioaccumulative potential** : Not Determined**12.4. Mobility in soil****Mobility in soil** : Not Determined**12.5. Results of PBT and vPvB assessment****Results of PBT and vPvB assessment** : Not Determined**12.6. Other adverse effects****Environmental data** : No data available.**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal method** : Dispose of in compliance with governmental regulation.(EC 1975L0442-20/11/2003)

SAFETY DATA SHEET
 according to Regulation (EC) No. 453/2010
 Dental Use



Date Issued : 04/14/2006
 SDS No : 45-001.6
 Date Revised : 04/28/2015
 Revision No : 6

PermaFlo® DC Base

SECTION 14: Transport information

14.1. UN number

UN number : N/A

14.2. UN proper shipping name

UN proper shipping name : Not Dangerous Goods

14.3. Transport hazard class(es)

Primary hazard class/division : N/A

Hazard classification : N/A

14.4. Packing group

14.5. Environmental hazards

Marine pollutant #1 : N/A

14.6. Special precautions for user

ADR - road : Not Dangerous Goods

RID - rail : Not Dangerous Goods

IMDG - sea : Not Dangerous Goods

IATA - air : Not Dangerous Goods

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk : Not Dangerous Goods

SECTION 15: Regulatory information

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

RoHS : Please refer to Medical Devices Directive 93/42/EEC

15.2. Chemical safety assessment

Chemical safety assessment : See Section 11

Additional information : None of the ingredients are listed with: SARA Sect. 355 (extremely hazardous substances) or SARA Sect.313 (specific toxic chemical listings). Prop 65- Chemicals known to cause cancer. They are not listed in the Cancerogenity categories with the following agencies: EPA, IARC, NTP, TLV, NIOSH-Ca, OSHA-Ca.

SECTION 16: Other information

Relevant R-phrases and/or H-statements (number and full text) : R22: Harmful if swallowed.
 R36/37/38: Irritating to eyes, respiratory system and skin.
 R43: May cause sensitization by skin contact.
 H302: Harmful if swallowed.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H318: Causes serious eye damage.

SAFETY DATA SHEET
 according to Regulation (EC) No. 453/2010
 Dental Use



Date Issued : 04/14/2006
SDS No : 45-001.6
Date Revised : 04/28/2015
Revision No : 6

PermaFlo® DC Base

H335: May cause respiratory irritation.
 H412: Harmful to aquatic life with long lasting effects.

Prepared by

: Anu Kattoju

Revision summary

: This SDS replaces the 04/09/2014 SDS. Revised: **Section 1:**
 . **Section 2:** EMERGENCY OVERVIEW - IMMEDIATE
 CONCERNS. **Section 4:** INGESTION. **Section 8:** PERSONAL
 PROTECTIVE EQUIPMENT (RESPIRATORY). **Section 10:**
 HAZARDOUS POLYMERIZATION, STABLE. **Section 11:** ACUTE (ORAL
 LD₅₀ (rat), INHALATION LC₅₀ (rat) ACUTE. **Section 14:** AIR
 (ICAO/IATA) - SPECIAL PROVISIONS ROAD AND RAIL (ADR/RID) (
 PROPER SHIPPING NAME), VESSEL (IMO/IMDG) - SPECIAL
 PROVISIONS ROAD AND RAIL (UK only) (CDG) - SPECIAL
 PROVISIONS SECTION 14: Transport information. **Section 15:**
 SECTION 15: Regulatory information.

General statements

: N/A= Not Applicable

Manufacturer disclaimer

: FOR DENTAL USE ONLY: Use as directed. The information and
 recommendations are taken from sources (raw material SDS(s) and
 manufacturer's knowledge) believed to be accurate; however, the
 manufacturer, makes no warranty with respect to the accuracy of the
 information or the suitability of the recommendation and assumes no
 liability to any user thereof. Each user should review these
 recommendations in the specific context of the intended use and
 determine whether they are appropriate.