

## Safety Data Sheet

Safety Data Sheet (in compliance with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010)

Date Issued: 22 June 2009  
 Document Number: 0070010MS  
 Date Revised: 21 May 2014  
 Revision Number: 4

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product Identifier:**

Trade Name (as labeled):	<b>SensiTemp® Resin Temporary Cement – Catalyst and Base</b>
Part/Item Number:	70010, 70020

**1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:**

Recommended Use:	Temporary Cement for Restorations
Restrictions on Use:	For professional use only

**1.3 Details of the Supplier of the Safety Data Sheet:**

Manufacturer/Supplier Name:	Sultan Healthcare
Manufacturer/Supplier Address:	1301 Smile Way York, PA, USA
Manufacturer/Supplier Telephone Number:	1-201-871-1232 or 800-637-8582 (Product Information)-
Email address:	<a href="mailto:customer.service@sultanhc.com">customer.service@sultanhc.com</a>

**1.4 Emergency Telephone Number:**

Emergency Contact Telephone Number:	800-535-5053 (INFOTRAC) 1-352-323-3500 (Outside the United States – Call Collect)
-------------------------------------	---

### 2. HAZARD(s) IDENTIFICATION

**2.1 Classification of the Substance or Mixture:**

**GHS Classification:**

Health	Environmental	Physical
Skin Sensitization Category 1 (H317)	Not hazardous	Not hazardous

**EU Classification (1999/45/EC as amended):** Irritant (Xi), Dangerous for the Environment (N)

**EU Risk (R) Phrases:** R43

**Refer to Section 16 for the full text of the EU Classifications and R Phrases.**

**Labeling Elements:** Contains 1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate, ,2'-ethylenedioxydiethyl dimethacrylate, Dibenzoyl peroxide, ,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate



**Signal Word: Warning!**

Hazard Statements	Precautionary Statements
H317 May cause an allergic skin reaction.	P261 Avoid breathing mist, vapors or spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P333 + P313 If skin irritation or rash occurs: Get medical attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P501 Dispose of contents and container in accordance with local and national regulations.

**2.3 Other Hazards:** None

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

#### 3.2 Mixture

Hazardous Components	C.A.S. # EC#	IUPAC Name	Substance Classification 67/548/EEC (EC) No 1272/2008	WT %
<u>Catalyst</u>				
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate	1565-94-2 / 216-367-7	[2-hydroxy-3-[4-[2-[4-[2-hydroxy-3-(2-methylprop-2-enoyloxy)propoxy]phenyl]propan-2-yl]phenoxy]propyl] 2-methylprop-2-enoate	Xi R43 Skin Sens 1 H317	20-30
2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0 / 203-652-6	2-[2-[2-(2-methylprop-2-enoyloxy)ethoxy]ethoxy]ethyl 2-methylprop-2-enoate	Xi R43 Skin Sens 1 H317	10-20
Surfactant	68412-54-4 / Polymer	2-{2-[4-(2,4,5-trimethylhexan-3-yl)phenoxy]polyethoxy}ethanol	Not hazardous	1-5

Dibenzoyl peroxide	94-36-0 / 202-327-6	benzoyl benzenecarboxylate	E, O, Xi R3, R7, R36, R43 Org. Perox. B H241 Eye Irrit. 2 H319 Skin Sens. 1 H317	0.1-1
<u>Base</u>				
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate	72869-86-4 / 276-957-5	2-[[3,5,5-trimethyl-6-[2-(2-methylprop-2-enoyloxy)ethoxycarbonylamino]hexyl]carbamoyloxy]ethyl 2-methylprop-2-enoate	Xi R43 Skin Sens 1 H317	20-30
2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0 / 203-652-6	2-[2-[2-(2-methylprop-2-enoyloxy)ethoxy]ethoxy]ethyl 2-methylprop-2-enoate	Xi R43 Skin Sens 1 H317	10-20
Surfactant	68412-54-4 / Polymer	Not available	Not hazardous	1-10
Potassium Nitrate	7757-79-1 / 231-818-8	potassium nitrate	O, R8	1-5

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the EU Classifications and R Phrases.





#### 4. FIRST-AID MEASURES

<b>4.1 Description of First Aid Measures:</b>	
<b>Routes of Exposure</b>	<b>First Aid Instructions</b>
<b>Eye</b>	Flush eyes with large quantities of water several minutes, holding the eyelids apart. Get medical attention if irritation persists.
<b>Skin</b>	Wipe excess off skin. Wash skin thoroughly with soap and water. Get medical attention if irritation develops or persists.
<b>Inhalation</b>	None needed under normal use conditions. If irritation develops, remove to fresh air and get medical attention.
<b>Ingestion</b>	If small amount are swallowed, no adverse effects are expected. For large amounts, rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Get medical attention.



<b>4.2 Most Important Symptoms and Effects, Both Acute and Delayed:</b>
Uncured product may cause mild eye and skin irritation. Uncured product may cause allergic skin reaction (sensitization).

<b>4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:</b>
If allergic symptoms or rash occur, get medical attention.
<b>Note to Physicians (Treatment, Testing, and Monitoring):</b> Treatment of overexposure should be directed at the control of symptoms and clinical conditions.

## 5. FIRE-FIGHTING MEASURES

<b>5.1 Extinguishing Media</b>			
Use media appropriate for surrounding fire.			
<b>5.2 Special Hazards Arising from the Substance or Mixture:</b>			
None known.			
<b>5.3 Advice for Fire-Fighters:</b>			
<b>Fire Fighting Procedures:</b>		<b>Cool fire exposed containers and structures with water.</b>	
<b>Precautions for Fire Fighters:</b>		Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals.	
<b>Recommended Protective Equipment for Fire Fighters:</b>			
EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

## 6. ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal Precautions, Protective Equipment and Emergency Procedures:</b>			
Wear eye and skin protection.			
Recommended Personal Protective Equipment for Containment and Clean-up:			
EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

<b>6.2 Environmental Precautions:</b>
Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.
<b>6.3 Methods and Material for Containment and Cleaning up:</b>
Scoop or wipe up and place in appropriate containers for disposal. May cause a slip hazard. Wash spill area with soap and water.
<b>6.4 Reference to Other Sections:</b>
Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling:

Avoid contact with the eyes and skin. Use in accordance with package instructions.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities:

**Conditions for Safe Storage:** Store away from extreme heat and sunlight

### 7.3 Specific End Use (s): For professional use only.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters:

#### Occupational Exposure Limits:

(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate	United States	None Established
	Germany	None Established
	United Kingdom	None Established
	France	None Established
	Spain	None Established
	Italy	None Established
	European Union	None Established
2,2'-ethylenedioxydiethyl dimethacrylate	United States	None Established
	Germany	None Established
	United Kingdom	None Established
	France	None Established
	Spain	None Established
	Italy	None Established
	European Union	None Established
Surfactant	United States	None Established
	Germany	None Established
	United Kingdom	None Established
	France	None Established
	Spain	None Established
	Italy	None Established
	European Union	None Established

Dibenzoyl peroxide	United States	5 mg/m <sup>3</sup> TWA OSHA PEL 5 mg/m <sup>3</sup> TWA ACGIH TLV
	Germany	5 mg/m <sup>3</sup> DFG MAK (inhalable fraction)
	United Kingdom	5 mg/m <sup>3</sup> TWA UK OEL
	France	5 mg/m <sup>3</sup> TWA INRS VME
	Spain	5 mg/m <sup>3</sup> TWA VLA-ED
	Italy	None Established
	European Union	None Established
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate	United States	None Established
	Germany	None Established
	United Kingdom	None Established
	France	None Established
	Spain	None Established
	Italy	None Established
	European Union	None Established
Potassium Nitrate	United States	None Established
	Germany	None Established
	United Kingdom	None Established
	France	None Established
	Spain	None Established
	Italy	None Established
	European Union	None Established
<b>Biological Exposure Limits:</b> None Established		

## 8.2 Exposure Controls:

**Appropriate Engineering Controls:** No special controls required.

### Individual Protection Measures (PPE)



**Specific Eye/face Protection:** Chemical safety goggles recommended for handling unreacted product.

**Specific Skin Protection:** Wear impervious gloves to prevent skin contact with unreacted product. Recommended glove: Nitrile gloves. Consult glove supplier for thickness and breakthrough times.

**Specific Respiratory Protection:** None required under normal use conditions.

**Specific Thermal Hazards:** Not applicable

### Recommended Personal Protective Equipment:

EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1 Information on Basic Physical and Chemical Properties:</b>			
<b>Appearance:</b>	White paste	<b>Explosive limits:</b>	Not applicable
<b>Odor:</b>	Weak, ester like odor	<b>Vapor pressure:</b>	Not applicable
<b>Odor threshold:</b>	Not available	<b>Vapor density:</b>	>1
<b>pH:</b>	Not available	<b>Relative density:</b>	Not available
<b>Melting/freezing point:</b>	Not available	<b>Solubility:</b>	Insoluble
<b>Initial boiling point and range:</b>	>482°F / >250°C	<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Flash point:</b>	Not flammable	<b>Auto-ignition temperature:</b>	Not available
<b>Evaporation rate:</b>	> 1	<b>Decomposition temperature:</b>	Not available
<b>Flammability:</b>	Not flammable	<b>Viscosity:</b>	Not available
<b>Explosive Properties:</b>	None	<b>Oxidizing Properties:</b>	None

**9.2 Other Information:** None available

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity:** No unusual reactivity.

**10.2 Chemical Stability:** Stable.

**10.3 Possibility of Hazardous Reactions:** Hazardous reactions are unlikely.

**10.4 Conditions to Avoid:** Avoid heat and UV light.

**10.5 Incompatible materials:** Avoid oxidizing agents.

**10.6 Hazardous Decomposition Products:** Thermal decomposition may produce carbon oxides, water and acrylic decomposition products.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects:

#### **Potential Health Effects:**

Eyes: Direct contact may cause mild irritation with redness and tearing.

Skin: Prolonged contact may cause dryness or irritation. May cause allergic skin reaction (sensitization).

Ingestion: No adverse effects are expected from swallowing small amounts. Large amounts may cause gastric upset with nausea.

Inhalation: None expected from normal use.

**Chronic Health Effects:** None known.

**Carcinogenicity:** None of the components of this product are listed as carcinogens by OSHA, IARC, ACGIH, NTP or EU Directives.

**Mutagenicity:** No mutagenic effects are expected.

**Medical Conditions Aggravated by Exposure:** None known.

#### **Acute Toxicity Data:**

Product toxicity: LD50 oral rat >5,000 mg/kg

**Reproductive Toxicity Data:** No reproductive or teratogenic effects are expected.

#### **Specific Target Organ Toxicity (STOT):**

Single Exposure: Methacrylates has been shown to cause sensitization in humans.

Repeated Exposure: No data available, however, no adverse effects are expected.

## 12. ECOLOGICAL INFORMATION

**12.1 Toxicity:** No adverse effects are expected on aquatic organisms.

**12.2 Persistence and Degradability:** This product is expected to be removed by sedimentation or degradation.

**12.3 Bio-accumulative Potential:** This product is not expected to bio-accumulate.

**12.4 Mobility in Soil:** No data is available.

**12.5 Other Adverse Effects:** None known.

**12.6 Results of PBT/vPvB Assessment:** Not required.



### 13. DISPOSAL CONSIDERATIONS

**13.1 Waste Treatment Methods:**

**Regulations:** Dispose in accordance with local and national environmental regulations.

**Properties (Physical/Chemical) Affecting Disposal:** None known.

**Waste Treatment Recommendations:** None needed for normal anticipated use.

### 14. TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
<b>DOT</b>	None	Not Regulated	None	None	No
<b>ADR/RID</b>	None	Not Regulated	None	None	No
<b>IMDG</b>	None	Not Regulated	None	None	No
<b>IATA/ICAO</b>	None	Not Regulated	None	None	No

**14.6 Special precautions for user:** Not applicable

**14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable – product is transported only in packaged form.

### 15. REGULATORY INFORMATION

**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:**

**U.S. Federal Regulations**

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**Toxic Substances Control Act (TSCA):** This product is a medical device and not subject to chemical notification requirements.

**Clean Water Act (CWA):** Not Listed

**Clean Air Act (CAA):** Not Listed

**Superfund Amendments and Reauthorization Act (SARA) Title III Information:**

**SARA Section 311/312 (40 CFR 370) Hazard Categories:**

<b>Immediate Hazard:</b>	<b>Yes</b>	<b>Pressure Hazard:</b>	<b>No</b>
<b>Delayed Hazard:</b>	<b>No</b>	<b>Reactivity Hazard:</b>	<b>No</b>
<b>Fire Hazard:</b>	<b>No</b>		

**This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):**

Components	C.A.S. #	WT %
None		

**State Regulations**

**California:** This product contains the following chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Components	C.A.S. #	WT %
None		

**International Regulations**

**EU REACH:** The substances in this product comply with the EU REACH regulation as applicable.

<b>16. OTHER INFORMATION</b>
<p>Full text of Classification abbreviations used in Section 2 and 3:</p> <p>E Explosive  O Oxidizer  Xi Irritant  R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.  R7 May cause fire.  R8 Contact with combustible material may cause fire.  R36 Irritating to eyes.  R36/38 Irritating to eyes and skin.  R43 May cause sensitization by skin contact.  Org. Perox. B Organic Peroxide Category B  Eye Irrit. 2 Eye Irritant Category 2  Skin Sens. 1 Skin Sensitizer Category 2  H241 Heating may cause a fire or explosion.  H317 May cause an allergic skin reaction.  H319 Causes serious eye irritation.</p> <p>Supersedes: : 26 August 2011  Revision Summary: Comprehensive review, new format  Date of SDS Preparation/Revision: 21 May 2014</p> <p>Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau,ESIS, Country websites for occupational exposure limits.</p>