

# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Date Issued : 04/09/2008  
 SDS No : BS1005  
 Date Revised : 11/04/2015  
 Revision No : 4

## Resilience® Catalyst Enamel Bonding Resin

### SECTION 1 : Identification of the substance/preparation and of the company/undertaking

#### 1.1. Product identifier

**Product code** : FC-RESI-053; FC-RESI-049  
**Product name** : Resilience® Catalyst Enamel Bonding Resin  
**Product description** : 6787M6G8  
**Chemical family** : Aromatic and Aliphatic Diemethacrylate Monomers  
**Molecular formula** : Not Available

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

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

Ortho Technology, Inc.  
 17401 Commerce Park Boulevard  
 Tampa, FL 33647

**Emergency Phone** : 1-800-999-3161  
**E-Mail** : ljohnson@orthotechnology.com

### SECTION 2: Hazards identification


#### 2.1. Classification of the substance or mixture

**Classification according to Directive 1999/45/EC**

#### 2.2. Label elements

Causes skin and eye irritation.

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

**Hazard pictogram(s)** : 

Exclamation  
mark

**Hazard statement(s)** : H315 + H320: Causes skin and eye irritation.

#### 2.3. Other hazards

### SECTION 3: Composition / information on ingredients

#### 3.1. Substances

Not Applicable

#### 3.2. Mixtures

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| Chemical Name                         | CAS      | EINECS No. | Wt. %     |
|---------------------------------------|----------|------------|-----------|
| Bisphenol "A" Diglycidyl Methacrylate | 156-94-2 | N/A        | ~ 0 - 100 |
| Benzoyl Peroxide                      | 94-36-0  | 202-327-6  | ~ 0 - 100 |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- Following eyes** : Flush with copious amounts of water.  
**Following skin** : Wash with soap and water.  
**Following ingestion** : Seek medical attention  
**Following inhalation** : Remove to fresh air.

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

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

### SECTION 5: Fire fighting measures

#### 5.1. Extinguishing media

- Extinguishing media** : Dry Chemical Foam, CO<sub>2</sub>, Alcohol, or Polymer Foam

#### 5.2. Special hazards arising from the substance or mixture

- Explosion hazards** : Material may burn if exposed to flame

#### 5.3. Advice for firefighters

- Fire fighting procedures** : None required  
**Fire fighting equipment** : Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.2. Environmental precautions

- Water spill** : May cause adverse environmental impact if material reaches waterways

#### 6.3. Methods and material for containment and cleaning up

- Small spill** : Collect spilled materials. Place in closed container.

#### 6.4. Reference to other sections

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Handling** : To be handled by qualified dental professionals.  
**Storage** : Store at or below room temperature.

#### 7.2. Conditions for safe storage, including any incompatibilities

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### 7.3. Specific end use(s)

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

|                               |   |
|-------------------------------|---|
| <b>Eye/face protection</b>    | : Safety glasses; splash goggles recommended.             |
| <b>Skin protection</b>        | : Wear lab coat and compatible chemical-resistant gloves. |
| <b>Respiratory protection</b> | : None required under normal use                          |
| <b>Protective clothing</b>    | : Wear lab coat   |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                             |   |
|-----------------------------|---|
| <b>Physical state</b>       | : Filled Resin  |
| <b>Odour</b>                | : Resin odor  |
| <b>Melting temperature</b>  | : No Data   |
| <b>Freezing temperature</b> | : No data   |
| <b>Boiling temperature</b>  | : No data   |
| <b>Flash point</b>          | : Not Determined  |
| <b>Evaporation rate</b>     | : Not Determined  |
| <b>Specific gravity</b>     | : 1.1   |
| <b>Solubility in water</b>  | : Insoluble, Flux alone (inside the Pellets) is water soluble |

### 9.2. Other information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

|                           |           |
|---------------------------|-----------|
| <b>Chemical stability</b> | : Stable. |
|---------------------------|-----------|

### 10.3. Possibility of hazardous reactions

|   |  |
|---|--|
| <b>Possibility of hazardous reactions</b> | : Polymerization may occur in large quantities |
|---|--|

### 10.4. Conditions to avoid

|                            |  |
|----------------------------|--|
| <b>Conditions to avoid</b> | : High temperatures. Keep away from materials containing tertiary amines |
|----------------------------|--|

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

|   |                                      |
|---|--------------------------------------|
| <b>Hazardous decomposition products</b> | : Carbon monoxide and Carbon dioxide |
|---|--------------------------------------|

## SECTION 11: Toxicological information

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### 11.1. Information on toxicological effects

#### SECTION 12: Ecological information

##### 12.1. Toxicity

##### 12.2. Persistence and degradability

##### 12.3. Bioaccumulative potential

##### 12.4. Mobility in soil

##### 12.5. Results of PBT and vPvB assessment

##### 12.6. Other adverse effects

**Environmental data** : May cause adverse environmental impact if material reaches waterways

#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

**Product disposal** : Dispose of waste in an appropriate waste disposal facility according to current applicable laws and regulations

**Disposal method** : Collect spilled material. Place in closed container.

#### SECTION 14: Transport information

##### 14.1. UN number

##### 14.2. UN proper shipping name

##### 14.3. Transport hazard class(es)

##### 14.4. Packing group

##### 14.5. Environmental hazards

##### 14.6. Special precautions for user

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

#### SECTION 15: Regulatory information

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

**General comments** : R-Phrase:  
 R21: Harmful in contact with skin  
 S-Phrase:  
 S24/25: Avoid contact with skin and eyes.

##### 15.2. Chemical safety assessment

#### SECTION 16: Other information

**Reason for issue** : New MSDS Format  
**Approved by** : Jodi Hutchnins **Title** : Director of Regulatory and Quality Affairs  
**Prepared by** : T. Bouchard

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### Revision summary

: This MSDS replaces the 03/11/2014 MSDS. Revised: **Section 1:** APPROVED BY, REASON FOR ISSUE, TITLE. **Section 2:** . **Section 3:** Wt. %.

### Manufacturer disclaimer

: To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.