

George Taub Products, Inc.  
277 New York Avenue  
Jersey City, NJ 07307  
T 201-798-5353

## Safety Data Sheet

### Section 1: Identification

George Taub Products, Inc.  
277 New York Avenue  
Jersey City, NJ USA

Phone Numbers:  
24 Hr. Emergency: Chemtrec 800-424-9300, 703-527-3887  
Customer Service: 201-798-5353

**IDENTITY Trade Name:** FUSION-Zr Dual Cure  
**Chemical Description:** Acrylate Resin  
**Product Use:** Permanent Cement

### Section 2: Hazard(s) Identification

#### HAZARDOUS IDENTIFICATION

**Ingredients** Acrylate Resins - Possible skin irritant.

#### FIRE AND EXPLOSION HAZARD DATA

**Extinguishing Media:** Use dry chemical, CO<sub>2</sub>, alcohol resistant foam, water spray.

**Hazardous Combustion Products / Unusual Fire and Explosion Hazards:**

Heat, aging or contamination can lead to rapid polymerization.

#### REACTIVITY DATA

**Stability:** Stable under normal conditions of use and storage.

**Conditions to avoid:** Heat, sparks and flame, ungrounded metal containers, contamination. Use promptly.

**Incompatibility:** Acids, bases, amines, bromines, chloroform, hydrogen peroxide, strong oxidizers.

**Hazardous Decomposition Products:** Thermal decomposition may produce toxic oxides of carbon.

**Hazardous Polymerization:** Possible.

**Conditions to avoid:** Heat, sparks and flame, contamination, storage for prolonged periods.

#### HEALTH HAZARD DATA

**Summary of Acute Hazards:** Minimal health hazard under normal conditions of use and storage and in the quantities present in this product. May be irritating to eyes, skin, or respiratory tract. In large quantities and with prolonged exposure.

**Route of Exposure** Signs & Symptoms

**Inhalation** No known threat.

**Eye Contact** Resins may irritate eyes.

**Ingestion** Harmful if swallowed.

**Skin Absorption** May cause skin irritation.

**Skin Contact** Resins may cause possible allergic skin reaction. Prolonged/repeated exposure may cause skin to become red or dry. May be a sensitizer.

**Ingestion** Harmful if swallowed.

#### Summary of Chronic Hazards:

**Carcinogenicity** Not known to be a carcinogen.

**Teratogenicity** None known.

**Mutagenicity** None known.

**Reproductive Toxicity** None known.

**Special Health Effects** None known.

## Section 3: Composition/Information on Ingredients

Component	CAS Number	Weight %
Hexamethylene Dimethacrylate	6606-59-3	10-30
Diurethane Dimethacrylate	72869-86-4	20-40
Acrylate Resin	3290-92-4	10-30
Dental Glass	41-4	30-60

## Section 4: First-Aid Measures

<b>Eye contact</b>	Flush the contaminated eye with flowing water for 15 minutes. If irritation persists, obtain medical care.
<b>Ingestion</b>	For large quantities, see emergency physician.
<b>Skin contact</b>	Wash affected area thoroughly with mild soap and water. If irritation develops or persists, seek medical advice.

## Section 5: Fire-Fighting Measures

**Suitable Extinguishing Media:** Use dry chemical, foam, or carbon dioxide to extinguish fire. Water may be ineffective but should be used to cool fire-exposed containers, structures and to protect personnel. Use water to dilute spills and to flush them away from sources of ignition.

**Fire Fighting Procedures:** Do not flush down sewers or other drainage systems. Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

**Unusual Fire and Explosion Hazards:** Dangerous when exposed to heat or flame. Will form flammable or explosive mixtures with air at room temperature. Vapor or gas may spread to distant ignition sources and flash back. Vapors or gas may accumulate in low areas. Runoff to sewer may cause fire or explosion hazard. Containers may explode in heat of fire. Vapors may concentrate in confined areas. Liquid will float and may reignite on the surface of water.

**Combustion Products:** Irritating or toxic substances may be emitted upon thermal decomposition. Thermal decomposition products may include oxides of carbon and nitrogen.

## Section 6: Accidental Release Measures

For small quantities, as in this product: Wear gloves and splash goggles.  
Absorb spill with inert material, such as paper towels. Place all absorbent material in closed container away from heat, sparks, and flame. Wash area of spill with soap and water.

## Section 7: Handling and Storage

**Handling and Storage Precautions:** Store tightly closed at room temperature in a dry area, away from incompatible materials. Empty containers may retain residual product and should be handled appropriately.

**Steps to be Taken if Material is Released or Spilled:** For small quantities, as in this product: Wear gloves and splash goggles. Absorb spill with inert material, such as paper towels. Place all absorbent material in closed container away from heat, sparks, and flame. Wash area of spill with soap and water.

**Waste Disposal Method:** Follow all government regulations. Keep spills out of sewers, open bodies of water.

**Other Precautions:** Avoid contact with eyes, skin or clothing. Wash hands after use.

## Section 8: Exposure Controls/Personal Protection

**Respiratory Protection:** Surgical mask is usually adequate.

**Ventilation:** No special ventilation is usually required.

**Protective Gloves:** Recommended.

**Eye Protection:** Safety glasses or splash goggles are recommended.

**Other Protective Clothing or Equipment:** Emergency eye wash fountain. Dental staff should wear lab coats.

**Work/Hygienic Practices:** Wash hands after use.

## Section 9: Physical and Chemical Properties

**Flashpoint:** NA  
**Autoignition Temperature:** NA  
**Boiling Point:** NA  
**Melting Point:** NA  
**Vapor Pressure:** NA  
**Vapor Density(Air=1):** NA  
**% Solubility in Water:** Slight  
**Pour Point:** NA  
**Molecular Formula:** Mixture  
**Odor/Appearance:** Paste, acrylate resin odor.  
**Lower Flammability Limit:** NA  
**Upper Flammability Limit:** NA  
**Specific Gravity:** 1.1 -1.6  
**% Volatile:** None  
**Evaporation Rate (Water=1):** NA  
**Viscosity:** Paste  
**Octanol/Water Partition Coefficient:** NA  
**pH:** N/A  
**Molecular Weight:** Mixture

### PHYSICAL / CHEMICAL CHARACTERISTICS

<b>Boiling Point</b>	Not Applicable
<b>Specific Gravity</b>	1.1-1.6
<b>Vapor Pressure</b>	Not Applicable
<b>Melting Point</b>	Not Applicable
<b>Vapor Density</b>	Not Applicable
<b>Evaporation Rate</b>	Not Established
<b>Solubility in water</b>	Slight
<b>Odor Threshold</b>	Not Applicable
<b>Odor</b>	Acrylate resin
<b>Appearance</b>	Clear or Off-White

## Section 10: Stability and Reactivity

**Stability/Incompatibility:** Incompatible with ammonia, amines, bromine, strong bases and strong acids.  
**Hazardous Reactions/Decomposition Products:** Thermal decomposition products may include oxides of carbon and nitrogen.

## Section 11: Toxicological Information

**Minimal health hazard under normal conditions of use and storage and in the quantities present in this product.**

**May be irritating to eyes, skin, or respiratory tract. In large quantities and with prolonged exposure.**

<b>Route of Exposure</b>	Signs & Symptoms
<b>Inhalation</b>	No known threat.
<b>Eye Contact</b>	Resins may irritate eyes.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin Absorption</b>	May cause skin irritation.
<b>Skin Contact</b>	Resins may cause possible allergic skin reaction. Prolonged/repeated exposure may cause skin to become red or dry. May be a sensitizer.
<b>Ingestion</b>	Harmful if swallowed.
<b>Summary of Chronic Hazards:</b>	
<b>Carcinogenicity</b>	Not known to be a carcinogen.
<b>Teratogenicity</b>	None known.

<b>Mutagenicity</b>	None known.
<b>Reproductive Toxicity</b>	None known.
<b>Special Health Effects</b>	None known.
<b>Acute Toxicity Values</b>	Not Established

## Section 12: Ecological Information\* (non-mandatory)

## Section 13: Disposal Considerations\* (non-mandatory)

## Section 14: Transport Information\* (non-mandatory)

## Section 15: Regulatory Information\* (non-mandatory)

## Section 16: Other Information

**Disclaimer:** The information presented herein is believed to be fact as it has been derived from the works of persons believed to be qualified experts. However, nothing contained in this information is to be taken as a warranty or representation for which George Taub Products, Inc. bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.