

**MATERIAL SAFETY DATA SHEET**

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Modified Methacrylate Resin for Seamless™ **Rapid Cure** Two Part Adhesive

Item Numbers MM103, MM109-2R, MM112-2R, MM115-2R, MM117-2R, MM120-2R, MM121-2R, MM123-2R, MM125-2R, MM129-2R, MM142-2R, MM145-2R, MM151-2R, MM152-2R, MM168-2R, MM170-2R, MM171-2R, MM172-2R, and MM182-2R

Product Use/Class: Solid Surface Methacrylate Adhesive (MMA)

MANUFACTURER: Gruber Systems, Inc.  
25636 Avenue Stanford  
Valencia, CA 91355 U.S.A.

**EMERGENCY TELEPHONE NUMBERS:** 1.800.257.4070; 1.682.518.7400; web: www.gruber-systems.com  
Chemtel: 1-800-255-3924 or Int'l +01-813-248-0585

**SECTION 2. - COMPOSITION/INFORMATION ON INGREDIENTS**

ITEM	CHEMICAL NAME	CAS NUMBER	WT
1	Methyl Methacrylate (MMA)	80-62-6	60-80

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

EXPOSURE LIMITS 8 hrs. TWA (ppm)

ITEM	ACGIH TLV	OSHA PEL	OTHER
1	100ppm	100ppm	100ppm (Canada)
2			
3			

**SECTION 3. - HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW:

WARNING! FLAMMABLE LIQUID AND VAPOR.

POTENTIAL HEALTH EFFECTS:

EYE:

Moderate eye irritation. Redness. Excess tearing.

SKIN:

Allergic skin reaction. Itching. Moderate skin irritation. Redness.

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**INGESTION:**

Toxicity by ingestion is not likely to occur

**INHALATION:**

Moderate respiratory tract irritation. Shortness of breath. Coughing.

**CHRONIC:**

Detailed information provided in section 11.

**CONDITIONS AGGRAVATED BY EXPOSURE:**

Respiratory disorders. Skin disorders. Eye disorders

**SECTION 4. - FIRST AID MEASURES**

**EYE:**

Immediately flush eyes with water for at least 20 minutes. Get immediate medical attention.

**SKIN:**

Wash thoroughly with soap and water. Discard contaminated clothing. Do not use organic solvents. If irritation occurs, get medical attention.

**INHALATION:**

Remove person to fresh air or apply artificial respiration if not breathing. Get medical attention if short of breathe or if respiratory symptoms develop.

**INGESTION:**

Give 1-2 glasses of milk or water to conscious person. Get immediate medical attention. **DO NOT INDUCE VOMITING.**

**SECTION 5. - FIRE FIGHTING MEASURES**

Flashpoint and Method: 51F (TCC)

Flammable Limits: 2.1 MMA, Upper 12.5 for MMA

Autoignition Temperature: NA

**EXTINGUISHING MEDIA:**

Flammable liquid, insoluble in water.

Use DRY chemical powder

**SPECIAL FIRE FIGHTING INSTRUCTIONS:**

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

**HAZARDOUS COMBUSTION PRODUCTS:**

Oxides of carbon and nitrogen. Hydrogen cyanide. Methylene bisphenyl isocyanate. Hydrocarbons. Smoke. Cyclopentanone. Butanediol. Tetrahydrofuran

## SECTION 6. - ACCIDENTAL RELEASE MEASURES

Remove sources of ignition. Use with ventilation. Dike area to prevent spreading. Absorb on vermiculite, sand or other inert absorbing material. Dispose of as chemical waste in accordance with current local, state, and federal regulations. Do not discharge into water. Incineration recommended. Wash spill area with strong detergent. After proper mixing of resin and activator sides, the material will polymerize into a cured solid state which can be treated as a nonhazardous solid. Applicable CERCLA/RCRA waste code:0001 (ignitability) U162 (MMA)

## SECTION 7. - HANDLING AND STORAGE

### HANDLING:

Avoid prolonged or repeated breathing of vapor. Avoid contact with skin and eyes. Wash hands before smoking or eating.

### STORAGE:

Avoid storage over 100F, contamination with incompatible materials. Store in cool place. Do not store in direct sunlight. Recommended storage in flammable material containment area

## SECTION 8. - EXPOSURE CONTROLS/PERSONAL PROTECTION

### ENGINEERING CONTROLS:

Use local exhaust ventilation if the potential for airborne exposure exists

### PERSONAL PROTECTION:

#### RESPIRATORY PROTECTION:

Use NIOSH approved respirator if there is potential to exceed any exposure limit(s).

**SKIN PROTECTION:** Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

**EYE PROTECTION:** Chemical splash goggles or safety glasses with side shields.

**OTHER PROTECTIVE EQUIPMENT:** NA

## SECTION 9. - PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	29mm at 20C	Vapor Density:	>1 Heavier than air, 3.5 for MMA
Solubility in H2O:	Slight	Specific Gravity:	1.57
Boiling Point:	214F for MMA	Freezing Point:	NA
Physical State:	Liquid	pH:	NA
Odor:	Pungent. Acrylic	Appearance:	Clear gel liquid
VOC:	NA		

## SECTION 10. - STABILITY AND REACTIVITY

**STABILITY:** Stable

### INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

No known conditions to avoid. Oxidizing agents, Alkalis, Moisture. Strong acids. Strong bases. Reducing agent. Ultraviolet radiation. Amines

### HAZARDOUS POLYMERIZATION:

May occur. Excessive aging. Excessive heat. Polymerization catalysts. Oxygen-free atmosphere. Inhibitor depletion. Direct sunlight.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

**SECTION 11. - TOXICOLOGICAL INFORMATION**

PRODUCT TOXICOLOGY DATA: Not available

Carcinogen

Ingredients	NTP	IARC	OSHA
Methyl methacrylate	No	N/A	No

Ingredients	Target Organ and other health effects
Methyl methacrylate	Allergen. Irritant. Nervous System. Respiratory. Kidney. Liver

**SECTION 12. - ECOLOGICAL INFORMATION**

Not available

**SECTION 13. - DISPOSAL CONSIDERATIONS**

DISPOSAL METHOD: Dispose according to EPA and local governmental regulations. EPA Hazardous waste # 0001;U162;D003

**SECTION 14. - TRANSPORT INFORMATION**

DOT (49 CFR 172)

PROPER SHIPPING NAME: Adhesives

HAZARD CLASS: 3

IDENTIFICATION NUMBER: UN1133

PACKING GROUP: II

EXCEPTIONS: Single unit less than or equal to 1 liter

PROPER SHIPPING NAME: Consumer Commodity

CLASS / DIVISION: ORM-D

INTERNATIONAL AIR TRANSPORTATION (IATA)

PROPER SHIPPING NAME: Adhesives

CLASS / DIVISION: 3

IDENTIFICATION NUMBER: UN1133

PACKING GROUP: II

EXCEPTIONS: Consumer Commodity, Class 9, ID 8000, less than 500 ml.

**SECTION 15. - REGULATORY INFORMATION**

**TSCA (Toxic Substance Control Act):**

All components are listed on or exempt from listing on the Toxic Substances Control Act Inventory.

**CERCLA (Comprehensive Emergency Response, Compensation, and Liability Act):**

NA

**SARA TITLE III (Superfund Amendments and Reauthorization Act):**

**313 Reportable Ingredients:**

Methyl Methacrylate

**CANADIAN INVENTORY STATUS:**

All components are listed on or are exempt from listing on the Canadian Domestic Substances List

**CALIFORNIA PROPOSITION 65:**

This product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm

**SECTION 16. - OTHER INFORMATION**

**NFPA**

Health 2 Fire 3 Reactivity 2 Special None

**Hazardous Materials Information System (HMIS) Ratings:**

Health 2 Flammability 3 Reactivity 2 Protective Equipment: See section 8

**REVISION SUMMARY:**

Change to 16 section format.

12/30/08 updated 45025F resin

Update Contact info, Part Numbers

7/6/09

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