

# MATERIAL SAFETY DATA SHEET

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Rev. 6 Date: 10/22/09

## Section 1

Pacer Technology  
9420 Santa Anita Avenue  
Rancho Cucamonga, CA 91730

For Chemical Emergency Only

In the US & Canada (800) 424-9300  
Int'l & Wash DC (COLLECT) (703) 527-3887  
Telephone for Information (909) 987-0550

### HMIS/NFPA RATING:

## I. PRODUCT IDENTIFICATION: Plastic Fusion - Part A: Resin 15277

Health = 2  
Flammability = 3  
Reactivity = 2

## II. COMPOSITION

INGREDIENTS	CONCENTRATION%	C.A.S.#	ACGIH TLV
Methyl methacrylate (MMA)*	60-85	80-62-6	100ppm
Acrylated copolymers	12-30	trade secret	---
Methacrylic Acid*	6-12	79-41-4	20ppm
Cumene Hydroperoxide*	1-4	80-15-9	---

\*SARA Section 313 Toxic Chemicals

## III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure: 29mmHg @ 20C      Vapor Density: Heavier than Air, 3.5 for MMA  
Solubility in water: <2%      Specific Gravity: 0.94 – 1.0  
Boiling point: 214F for MMA      Appearance: light gel, milky white in color  
Odor: pungent acrylic odor      VOC: 1.98%; 1.92 g/L (resin & activator, mixed).

## IV. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flashpoint (T.C.C.): 51F      Explosive Limits in air: Lower 2, Upper 12.5 for MMA  
Recommended Extinguishing Agents: Water, dry chemical or carbon dioxide  
Hazardous Products Formed by Fire or Thermal Decomposition: Toxic fumes of carbon oxides may evolve upon exposure to heat or open flame. Use self-contained breathing apparatus if burning.  
Unusual Fire or Explosive Hazards: none Closed containers may burst when heated. Cool containers with water spray.  
Compressed gases: none      Solvents: none      Pressure at 23C: N/A

## V. REACTIVITY DATA

Stability: Stable      Hazardous Polymerization: may not occur  
Hazardous Decomposition Products: oxides of carbon, acid smoke  
Incompatibility: oxidizers, heat, reducing agents, free radical generators, ignition sources, amines

## VI. SPILL OR LEAK PROCEDURES

Remove sources of ignition. Use with ventilation. Dike area to prevent spreading. Absorb on vermiculite, sand or other inert absorbing material. Dispose of as a chemical waste in accordance with current local, state, and federal regulations. Do not discharge into water. 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).

## VII. STORAGE AND HANDLING PROCEDURES

Storage: Avoid storage over 100F, contamination with incompatible materials. Store in cool place away from direct sunlight.

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

**VIII. SHIPPING REGULATIONS**

DOT and IATA Hazard Classification:ORM-D in plastic containers or small volume cans, 1 gallon or less.

IMCG – ADHESIVES CONTAINING FLAMMABLE LIQUIDS (CONTAINS METHYL METHACRYLATE) CLASS 3, UN1133, II.

**IX. EMERGENCY TREATMENT**

Eye Irritation: Immediately flush eyes with water for at least 15 minutes. Get medical attention.

Skin Contact: Wash thoroughly with soap and water. Discard contaminated clothing. Do not use organic solvents on skin. For long term exposure or in case of irritation, get medical attention.

Inhalation: Remove person to fresh air. Get medical attention if short of breathe or if respiratory symptoms develop.

Ingestion: Give 1-2 glasses of milk or water to conscious person. Do not induce vomiting. Get medical attention.

**X. PERSONAL PROTECTION**

Respiratory: Use proper positive airflow ventilation in work areas/explosion proof equipment in confined areas where vapors may exceed TLV limits.

Skin: Avoid skin contact, wear impervious gloves and protective clothing if in direct contact with material. Disposable polyethylene gloves with vinyl latex overgloves will give protection.

Eyes: Wear safety goggles or side shield safety glasses. Do not wear contact lenses.

**XI. HEALTH HAZARD DATA**

Hazard Categories: immediate X                      delayed X                      fire X                      pressure                      reactivity

Potential Routes of Entry: skin X                      inhalation X                      ingestion X

Symptoms of Overexposure: Possible skin and eye irritation on contact is likely. Vapor may irritate throat.

Exposure limits:	ACGIH	OSHA	OTHER
Ingredients			
Methyl Methacrylate	100ppm	100ppm	100ppm Canada
Methacrylic acid	20ppm	20ppm	
	Target organs	Carcinogen	
		NTP IARC OSHA	
		None None None	

Sara Listed Ingredients: Methyl methacrylate, methacrylic acid, cumene hydroperoxide

**XII. PREPARATION INFORMATION**

Original Issue Date: 10/27/99

Current Revision 6 – 10/22/09

PREPARED BY: Mary K. Robles

*The data contained herein is based upon information that Pacer Technology believes to be reliable. Users of this product have the responsibility to determine the suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.*

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Flammability = 3  
Reactivity = 2

## **II. COMPOSITION**

<u>INGREDIENTS</u>	<u>CONCENTRATION%</u>	<u>C.A.S.#</u>	<u>ACGIH TLV</u>
Methyl methacrylate (MMA)*	60-85	80-62-6	100ppm
Acrylated copolymers	12-30	trade secret	---
Amine condensate	0.5-5	trade secret	---
Metal salt, acid complex solution	0.1-1	trade secret	---

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## **III. CHEMICAL AND PHYSICAL PROPERTIES**

Vapor Pressure: 29mmHg @ 20C      Vapor Density: Heavier than Air, 3.5 for MMA  
Solubility in water: Insoluble      Specific Gravity: 1.2 – 1.3  
Boiling point: 214F for MMA      Appearance: light gel, amber colored  
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Ingredients			
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Sara Listed Ingredients: Methyl methacrylate

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