

## **Bond & Fill, Inc.**

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### **MATERIAL SAFETY DATA SHEET 24 – HOUR EMERGENCY**

**PHONE NUMBER: INFOTRAC 1-800-535-5035**

**I. PRODUCT NAME: BOND & FILL RESIN**

**II. COMPOSITION/INFORMATION ON INGREDIENTS**

**OSHA HAZARDOUS COMPONENTS**

(29 CFR 1910.1200)

Exposure Limits – 8 hrs. TWA (ppm)

CHEMICAL NAME WT CAS # ACGIH TLV OSHA PEL OTHER

Methyl Methacrylate (MMA) 40-75 80-62-6 100 ppm 100 ppm 100 ppm (Canada)

Cumene Hydroperoxide 1-10 80-15-9 1 ppm None Skin

p-toulenesulfonyl 1-10 98-59-9 None None None

Methacrylic Acid 1-10 79-41-4 20 ppm (skin) None

**III. HAZARDOUS INFORMATION**

EMERGENCY OVERVIEW:

PHYSICAL STATE: Liquid COLOR: Milky White ODOR: Pungent. Acrylic.

WARNING! FLAMMABLE LIQUID AND VAPOR. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE EYE, SKIN, AND RESPIRATORY IRRITATION.

**POTENTIAL HEALTH EFFECTS:**

EYE: Moderate eye irritation. Redness. Excess tearing.

SKIN: Allergic skin reaction. Itching, Moderate skin irritation. Redness.

INGESTION: Toxicity by ingestion is not likely to occur.

INHALATION: Moderate respiratory tract irritation. Shortness of breath. Coughing.

CHRONIC: Detailed information provided in section XI

CONDITIONS AGGRAVATED BY EXPOSURE: Respiratory disorders. Skin disorders. Eye disorders.

**IV. 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 breath or if respiratory symptoms develop.

INGESTION: Give 1-2 glasses of milk or water to conscious person. Get medical attention.

**DO NOT INDUCE VOMITING**

**V. FIRE FIGHTING MEASURES**

**Flashpoint and Method: 51F (TCC)**

**Autoignition Temperature: NA**

**Flammable Limits: 2.1 MMA, Upper 12.5 frp MMA**

**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 fill turnout gear.**

**HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon and**

**Nitrogen. Hydrogen cyanide.**

**Methylene bisphenyl isocyanate. Hydrocarbons. Smoke.**

**Cyclopentanone. Butanediol. Tetrahydrofuran.**

**VI. 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 a 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 non hazardous solid. Applicable CERLA/RCRS waste code: 0001 (ignitability) U162 (MMA)

**VII. STORAGE AND HANDLING**

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

**HANDLING:** Avoid prolonged or repeated breathing of vapor.

Avoid contact with skin and eyes. Wash hands before smoking or eating.

**VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Use local exhaust ventilation of 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 Side shields.

**OTHER PROTECTIVE EQUIPMENT:** NA

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

Vapor pressure: 29mm at 20C Vapor Density: >1 Heavier than air 3.5 for MMA.

Solubility in Water: Slight Specific Gravity: 0.94-1.0

Boiling Point: 214F for MMA Freezing Point: NA

Physical State: Liquid pH: NA

Odor: Pungent. Acrylic Appearance: Light gel, milky white in Color.

VOC: 1.98; 1.92 g/l (adhesive & activator mixed)

**X. 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: Non known

**XI. TOXICOLOGICAL INFORMATION**

PRODUCT TOXICOLOGY DATA: None available

Ingredients	Carcinogen	Target Organ
NTP IARC OSHA		
Methyl Methacrylate	No N/A No	Allergen. Irritant. Nervous System. Respiratory. Kidney. Liver.

Organic Peroxide	No No No	Allergen. Central Nervous System. Corrosive. Irritant.
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		Mutagen
Methacrylic Acid	No No No	Allergen. Corrosive. Irritant.
p-toluenesulfonyl Chloride	No No No	Allergen. Corrosive. Irritant.

**XII. ECOLOGICAL INFORMATION:** Not available

**XIII. DISPOSAL CONSIDERATIONS**

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

**XIV. TRANSPORT INFORMATION**

DOT (49 CFR 172)  
 PROPER SHIPPING NAME: Adhesives / Consumer Commodity  
 IDENTIFICATION NUMBER: Un1133  
 HAZARD CLASS: 3 PACKING GROUP: II  
 EXCEPTIONS: Single unit less than or equal to 1 liter  
 CLASS/DIVISION: ORM-D – 3 INTERNATIONAL AIR TRANSPORTATION (IATA)  
 EXCEPTIONS: Consumer Commodity, class 9, ID 8000, less than 500 ml.

**XV. REGULATORY INFORMATION**

TCA (Toxic Substance Control Act): All components are listed on Or exempt from listing on the Toxic Substances Control Act Inventory.

CERLA (Comprehensive Emergency Response, Compensation, And Liability Act): NA

SARA Title III (Superfund amendments and Reauthorization Act): 313 Reportable Ingredients: Methyl Methacrylate, Cumene Hydroperoxide.

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.

## **XVI. 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 VIII

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of the product are beyond AE&S Inc. control: it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, damage or expense arising out of the product's improper use. No warranty, expressed or implied regarding the product described herein shall be created by or inferred from any statement or omissions in this MSDS. Various government agencies (e.g. DOT, EPA, FDA) may have specific regulations concerning the transportation, handling, storage use or disposal of the product, which may not be reflected in this MSDS. The user should review those regulations to ensure full compliance.

07/14/03



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### **Material Safety Data Sheet 24-Hour Emergency**

**Phone Number: Infotrac 1-800-535-5035**

#### **I. PRODUCT NAME: BOND & FILL ACTIVATOR**

#### **II. COMPOSITION/INFORMATION ON INGREDIENTS**

##### **OSHA HAZARDOUS COMPONENTS**

(29 CFR 1910.1200)

Exposure limits – 8 hrs. TWA (ppm)

CHEMICAL NAME WT CAS # ACGIH TLV OSHA PEL OTHER

Methyl Methacrylate (MMA) 30-60 80-62-6 100 ppm 100 ppm 100 ppm (Canada)

Amine Condensate 1-10 Trade Secret None None None

#### **III. HAZARDOUS INFORMATION**

##### **EMERGENCY OVERVIEW:**

PHYSICAL STATE: Liquid COLOR: Milky white. ODOR Pungent. Acrylic.

WARNING! FLAMABLE LIQUID AND VAPOR. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE EYE, SKIN, AND RESPIRATORY IRRITATION.

##### **POTENTIAL HEALTH EFFECTS:**

EYE: Moderate eye irritation. Redness. Excess tearing.

SKIN: Allergic skin reaction. Itching, moderate skin irritation. Redness

INGESTION: Toxicity by ingestion is not likely to occur.

INHALATION: Moderate respiratory tract irritation. Shortness of breath. Coughing.

CRONIC: Detailed information provided in section XI

CONDITIONS AGGRAVATED BY EXPOSURE: Respiratory disorders. Skin disorders. Eye disorders.

#### **IV. 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 breath or if respiratory symptoms develop.

INGESTION: Give 1 – 2 glasses of milk or water to conscious person. Get medical attention.

DO NOT INDUCE VOMITING.

**V. FIRE FIGHTING MEASURES**

**Flashpoint and Method: 51F (TCC)**

**Auto Ignition Temperature: NA**

**Flammable Limits: 2.1 MMA, Upper 12.5 fpr MMA**

**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.**

**VI. 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 a 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 Activator and activator sides, the material will polymerize into a cured solid state, which can be treated as a nonhazardous solid. Applicable CERCLA/RCRS waste code: 0001 (ignitability) U162 (MMA)**

**VII. STORAGE AND HANDLING**

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

**HANDLING: Avoid prolonged or repeated breathing of vapor. Avoid contact with skin and eyes. Wash hands before smoking or Eating.**

**VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS: Use local exhaust ventilation of 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

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

**Vapor Pressure:** 29mm at 20C **Vapor Density:** > 1 Heavier than air, 3.5 for MMA

**Solubility in Water:** Slight **Specific Gravity:** 1.0 – 1.1

**Boiling Point:** 214F for MMA **Freezing Point:** NA

**Physical State:** Liquid **pH:** NA

**Odor:** Pungent. **Acrylic Appearance:** Light gel, milky white in Color.

**VOC:** 1.18; 1.12 g/l (adhesive & activator mixed)

**X. 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:** NON KNOWN

**XI. TOXICOLOGICAL INFORMATION**

**PRODUCT TOXICOLOGY DATA:** None available

<b>INGREDIENTS</b>	<b>CARCINOGEN</b>	<b>TARGET ORGAN</b>
<b>NTP IARC OSHA</b>		
<b>METHYL METHACRYLATE</b>	<b>NO/NA/NO</b>	<b>Allergen. Irritant. Nervous System. Respiratory. Kidney. Liver</b>
<b>AMINE CONDENSATE</b>	<b>NO/NA/NO</b>	<b>Not Available</b>
	<b>0</b>	

**XII. ECOLOGICAL INFORMATION: Not available**

**XIII. DISPOSAL CONSIDERATIONS**

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

**XIV. TRANSPORT INFORMATION**

**DOT (49 CFR 172)**

**PROPER SHIPPING NAME: Adhesive/Consumer Commodity**

**Identification Number: Un1133**

**Hazard Class: 3 Packing Group: 11**

**EXCEPTIONS: Single Unit less than or equal to 1 liter**

**CLASS/DIVISION: ORM-D 3 INTERNATIONAL AIR**

**TRANSPORTATION (IATA)**

**EXCEPTIONS: Consumer Commodity, class9, ID 8000, less than 500 ml**

**XV. REGULATORY INFORMATION**

**TCA (Toxic Substance Control Act): All components are listed on Or exempt from listing on the Toxic Substances Control Act Inventory.**

**CERLA (Comprehensive Emergency Response, Compensation, And Liability Act): NA**

**SARA TITLE 111 (Superfund Amendments and Reauthorization Act): 313 Reportable Ingredients: Methyl Methacrylate, Cumene Hydroperoxide.**

**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.**

**XV. 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 VII**

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**07/14/03**