



ACRYLIC TECHNOLOGIES AUSTRALIA

**Acrylic Technologies Australia Pty Ltd**

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# Material Safety Data Sheet

Acri-Bond 290 Clear Structural Adhesive

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## 1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

**1.1. Product name:** AB290C Structural Adhesive, component A and component B **1.2.**

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

- Company Name : Acrylic Technologies Australia Pty Ltd
- Add: Unit 4, 128 Station Road, Seven Hills, NSW, 2147 Australia
- Tel : 02-9674 3005
- Fax: 02-9674 8005

## 2. HAZARD IDENTIFICATION

### 2.1. Classification of the substance or mixture



Highly flammable



Irritant

### 2.2. Emergency overview

- Potential skin sensitizer.
- Eye, skin and upper respiratory irritant.
- Harmful if inhaled or absorbed through skin.
- Moderate toxic by ingestion.
- Flammable liquid.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	EC No.	Wt %	REACH NO
<b>Component A</b>				
Acrylic polymer	9011-14-7		22~42	
Methyl Methacrylate	80-62-6	201-297-1	35~65	05-2114088188-37-0000
Aluminum hydroxide	21645-51-2	244-492-7	0~40	05-2114088189-35-0000
<b>Component B</b> Dibenzoylperoxide				
	94-36-0	202-327-6	2~6	

### 4. FIRST AID MEASURES

#### 4.1. Skin Contact

- Wash skin thoroughly with soap and water.
- Contaminated clothing should be washed or dry-cleaned before re-use.

#### 4.2. Eye Contact

- Immediately flood the eye with plenty of water for at least 15 minutes.
- Holding the eye open.
- Obtain medical attention urgently.

#### 4.3. Inhalation

- Remove from exposure. Keep warm and at rest.
- If breathing stops or shows signs of failing, give artificial respiration.

#### 4.4. Ingestion

- Wash out mouth with water.
- Do not induce vomiting.
- Keep warm and at rest.
- If breathing stops or shows signs of failing, apply artificial respiration.
- Obtain medical attention urgently.

### 5. FIRE FIGHTING MEASURES

#### 5.1. Flammable properties

##### A. Flash point

- Component A : 26°C, Method: TCC
- Component B : 100°C, Method: COC

##### B. Flammable limits in air, % by volume

- Component A: Lower explosive limit 2.1%, Upper explosive limit 12.5%

- Component B: explosive limit Lower/Upper no data available Vol. %

## **5.2. Extinguishing media**

- Use alcohol-resistant foam, dry chemical or carbon dioxide.
- This product may give rise to hazardous fumes in fire.

## **6. ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures - Wear**

- appropriate protective clothing and respiratory protection.
- Remove all sources of ignition.

### **6.2. Methods and material for containment and cleaning up**

- Soak up residue with an absorbent such as oil dry, sand, or other suitable materials.
- Scrape up and hold for proper disposal.

### **6.3. Environmental precautions**

- Prevent release into drains, sewers or water ways.
- Stop spill to prevent contamination of groundwater, soil.

## **7. HANDLING AND STORAGE**

### **7.1. Precautions for safe handling - Use**

- in well ventilated area.
- Avoid contact with eyes, skin and clothing.
- Emergency shower and eye wash facilities should be readily available.
- Use of non-sparking
- Explosion-proof equipment may be necessary depending on type of operation

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

- Store in a cool, dark and well-ventilated place below 10~21°C .
- Store away from heat and sources of ignition.
- Keep container tightly closed.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **8.1. Personal protective equipment**

- Hand protection: Rubber or polyethylene gloves.
- Eye protection : Chemical goggles must be worn during all handling operations.
- Body protection: If there is danger of splashing, wear impermeable suit.
- Ventilation: During application, adequate ventilation must be provided.

## 8.2. Exposure guidelines

- Methyl Methacrylate
  - PEL (OSHA): 100ppm, 410mg/m<sup>3</sup>, 8hr, TWA
  - TLV (ACGIH): 50ppm, 8hr, TWA, STEL 100ppm, A4
- Benzoyl Peroxide
  - PEL (OSHA): 5mg/m<sup>3</sup>, 8hr, TWA
  - TLV (ACGIH): 5mg/m<sup>3</sup>, 8hr, TWA, A4

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. General information

- Appearance: Viscous liquid (component A), Oily liquid (component B)
- Odor: Methacrylate odor (component A), Mild (component B)
- Color: Various (component A), Translucent (component B)

### 9.2. Important health, safety and environmental information

- Specific Gravity: 1.2 at 23°C (component A), 1.04 at 23°C (component B)
- Boiling Point: 101°C at 1atm (component A)
  - 340°C at 1atm (component B)
- Flash point : 26°C closed cup
- Solubility in Water: Slightly soluble (component A)
  - Insoluble (component B)
- Explosion Limits: Lower 2.1%, Upper 12.5% (component A)
  - No data available (component B)
- Vapor Density: 3.42 (Air=1.0)
- Ignition Temperature: 430°C at 1atm (component A)
- Viscosity: 20,000~35,000 cps at 23°C (component A)
  - 800~3,000 cps at 23°C (component B)

## 10. STABILITY AND REACTIVITY

### 10.1. Stability

- Stable under normal condition

### 10.2. Conditions to avoid

- Avoid direct sunlight, heat, flame, spark and other sources of ignition.

### 10.3. Materials to avoid

- Avoid oxidizing agents, amine, accelerators, strong acids/bases, reducing agents.

#### **10.4. Hazardous decomposition products**

- Carbon monoxide, carbon dioxide, smoke, methyl methacrylate monomer

### **11. TOXICOLOGICAL INFORMATION**

#### **11.1. Potential acute health effects -**

Harmful by ingestion.

#### **11.2. Toxicity and irritation**

- Acute toxicity: None assigned
- Carcinogenicity: NTP None assigned JARC None assigned  
OSHA None assigned

### **12. ECOLOGICAL INFORMATION**

**12.1. Ecotoxicity:** No data available

**12.2. Mobility:** No data available

**12.3. Persistence/degradability:** No data available **12.4. Bioaccumulative potential:**  
No data available

### **13. DISPOSAL CONSIDERATIONS**

- Dispose of in accordance with all applicable federal, state/provincial and local regulations.
- Do not incinerate in closed containers.
- Do not flush to surface water or sanitary sewer system.

### **14. TRANSPORTATION INFORMATION**

- UN-No : 1133 Class : 3
- Packing group : III TREM-CARD : 30G80
- Proper shipping name : ADHESIVES

### **15. REGULATORY INFORMATION**

#### **15.1. Labelling according to EEC Directive**

Symbols: Xi (irritant), F (highly flammable) **15.2. Risk and safety phrases**

R11 Highly flammable.

R36/37/38 Irritating to eyes, respiratory system and skin.

R43 May cause sensitization by skin contact.

S 9	Keep container in a well ventilated place.
S16	Keep away from sources of ignition – No smoking
S24/25	Avoid contact with the skin and eyes
S33	Take precautionary measure against static discharges.
S37	Wear suitable gloves.
S51	Use only in well ventilated areas.
S60	This material and its container must be disposed of as hazardous waste.

## **16. Other information**

Before use, read the the label and safety data sheet.

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