

Manufactured By:



35 Old Dock Road, Yaphank, NY 11980  
Phone: (631) 345-6509 Fax: (631) 775-4023  
www.timtronics.com

Package For/Supply By:



33 Bridge Street, Pelham, NH 03076  
Phone: (603) 635-2800 Fax: (603) 635-1900  
www.wakefield.com

**MATERIAL SAFETY DATA SHEET**

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **TIM-818 EX**  
Product Number: **Delta Bond 156-K**  
Product Type: **Thermally Conductive Acrylic Resin**

2. COMPOSITION

Ingredients	CAS Number	%
Alumina	21645-51-2	60-100
Alkyl Methacrylate	2455-24-5	10-20
Hydroxyalkyl Methacrylate	27813-02-1	5-10
Elastomer	249347-78-8	5-10
Cumene Hydroperoxide	80-15-9	1-3
Saccharin	81-07-2	1-3

3. HAZARDS IDENTIFICATION

HMIS: HEALTH: 1  
FLAMMABILITY: 1  
PHYSICAL HAZARD: 1

WARNING: MAY CAUSE EYE IRRITATION.  
MAY CAUSE ALLERGIC SKIN REACTION.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.  
Primary Routes of Entry: Skin, Inhalation, Eyes.  
Signs and Symptoms of Exposure: Prolonged contact with sensitive individuals may cause dermatitis.  
Existing Conditions Aggravated by Exposure: Eye, skin, and respiratory disorders.

4. FIRST AID MEASURES:

Ingestion: DC NOT induce vomiting. Keep individual calm. Obtain medical attention. Low toxicity.  
Inhalation: Remove to fresh air.  
Skin Contact: Wash with soap and water and flush for at least 15 minutes with water. Obtain medical attention.  
Eye Contact: Wash with water and flush for at least 15 minutes with water. Obtain medical attention.

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**5. FIRE FIGHTING MEASURES:**

Flash Point:	>200°F	Method: TCC
Flammable/Explosive Limits:		
(% by volume in air) Lower	Not Available	
(% by volume in air) Upper	Not Available	
Recommended Extinguishing Agents:	CO2, Foam, Dry Chemical	
Hazardous Products Formed by Fire or Thermal Decomposition:	CO, Nitrogen Oxide & Irritating organic vapors.	
Unusual Fire or Explosion Hazards:	None	

**6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions:	Wear proper protective equipments.
Measures for Environmental Protection:	Do not allow entry in to drain or surface water.
Clean-up Measures:	Soak up with inert absorbent. Store in partly filled, closed container until disposal.

**7. STORAGE AND HANDLING PROCEDURES**

Storage:	Store between 46-82°F to preserve shelf life.
Handling:	Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation.

**8. EXPOSURE CONTROL, PERSONAL PROTECTION**

Eyes:	Safety glasses or goggles
Skin:	Impermeable rubber or plastic gloves.
Ventilation:	Force ventilation required if concentrations exceed exposure limits.
Respiratory Protection:	Use NIOSH approved respirator if there is a potential to exceed exposure limits.

**9. CHEMICAL AND PHYSICAL PROPERTIES**

Vapor Pressure:	Unknown
Vapor Density:	Unknown
Solubility in Water:	Slight
Specific Gravity:	1.6
Boiling Point:	300°F
Volatile Organic Compound	Not available
Evaporation Rate (Ether = 1)	<1
Appearance:	White paste
pH:	
Odor:	Mild Odor

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**10. STABILITY AND REACTIVITY DATA**

Stability: Stable  
Hazardous Polymerization: Will not occur  
Hazardous Decomposition Products: Oxides of carbon and nitrogen, Irritating organic vapors.  
Incompatibility: Strong oxides.

**11. TOXICOLOGICAL INFORMATION**

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	Other
Alumina	10 mg./m3	15mg/m3	None
Alkyl Methacrylate	None	None	None
Hydroxyalkyl Methacrylate	None	None	3 ppm ceiling
Elastomer	None	None	None
Cumene Hydroperoxide	None	None	None
Saccharin	None	None	None
Exposure Limits (STEL)	ACGIH (TLV)	OSHA (PEL)	

Ingredients for which no Exposure Limits have been established are not listed above.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Alumina	No data	No	No	No
Alky Methacrylate	No data	No	No	No
Hydroxyalkyl Methacrylate	ALG KID LIV	No	No	No
Elastomer	ALG KID LIV	No	No	No
Cumene Hydrperoxide	MUT SOM	No	No	No
Saccharin	MUT	No	No	No

Abbreviations

ALG	Allergen	LUN	Lungs	KID	Kidney	LIV	Liver
SOM		MUT	Mutagen	IRR	Irritant		

**12. EOLOGICAL INFORMATION**

Water Hazard: Do not allow entry in to drains or surface waters.

**13. DISPOSAL CONSIDERATIONS**

Recommended methods of disposal: Dispose of according to Federal, State and Local regulations.  
EPA Hazardous Waste number: D001: Ignitable.

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**14. TRANSPORTATION INFORMATION**

DOT (49 CFR 172)  
Proper Shipping Name Unrestricted  
Hazard Class or Division: Unrestricted  
Identification Number None

IATA  
Proper Shipping Name: Unrestricted  
Class or Division: Unrestricted  
UN or ID Number: None

IMO  
Substance NA  
Marine Pollutant Status NA  
Class NA  
Subsidiary Risk NA  
IMDG Code Page NA  
UN Number NA

**15. REGULATORY INFORMATION**

United State Regulatory Information:  
TSCA 8(b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

CERCLA/SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the emergency Planning and community Right-To-Know act 1986(40CFR 372)

Cumene Hydroperoxide.

**16. PREPARATION INFORMATION**

Prepared by: Prakash Khatri  
Title: Technical Director  
Revision: January 2007

**NOTICE**

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