

**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 (PART B)**  
Product Number: **Delta Bond 156-K (Activator)**  
Product Type: **Activator**

**2. COMPOSITION**

Ingredients	CAS Number	%	ACGIH TLV	OSHA PEL	OTHER
n-Heptane	142-82-5	70-100	400ppm TWA 500ppm STEL	2000mg/m3 TWA 500ppm TWA	None
Aldehyde-amine condensation	34562-31-7	20-30	None	None	None
Isopropyl Alcohol	67-63-0	1-5	200ppm TWA 400ppm STEL	400ppm TWA 980 mg/m3 TWA	None

**3. HAZARDS IDENTIFICATION**

HMIS: HEALTH: 2  
FLAMMABILITY: 3  
PHYSICAL HAZARD: 1

WARNING: FLAMMABLE LIQUID AND VAPOR  
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 cause respiratory tract irritation, Headache, dizziness.  
Irritating to skin, causing dry and defat skin. .Ingestion may cause gastrointestinal irritation.  
Existing Conditions Aggravated By Exposure: Eye, skin, and respiratory disorders.

**4. FIRST AID MEASURES:**

Ingestion: Induce vomiting. Keep individual calm. Obtain medical attention.  
Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.  
Skin Contact: Wash with soap and water.  
Eye Contact: Flush for at least 15 minutes with water. Obtain medical attention

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**5. FIRE FIGHTING MEASURES:**

Flash Point:	28°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	
Special Firefighting Procedure:	Water should not be use to cool closed containers to prevent pressure build up And possible autoignition or explosion when exposed to extreme heat.	
Hazardous Products Formed by Fire or Thermal Decomposition:	CO, Nitrogen Oxide & Irritating organic vapors.	
Unusual Fire or Explosion Hazards:	Vapor may accumulate in low or confined areas. Travel considerable distance To source of ignition, and flash back.	

**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:	Ensure adequate ventilation, Soak up with inert absorbent. Store in suitable, closed container until disposal.

**7. STORAGE AND HANDLING PROCEDURES**

Storage:	Store away from heat, sparks, flames or other sources of ignition. Store between 46 and 82°F
Handling:	Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapor and mist. Avoid any sources of ignition. 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.

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**9. CHEMICAL AND PHYSICAL PROPERTIES**

Vapor Pressure: 35 mm Hg at 68°F  
Vapor Density: Heavier than air  
Solubility in Water: Slight  
Specific Gravity: 0.75  
Boiling Point: 176°F  
Volatile Organic Compound: 83.8%

Evaporation Rate (Ether = 1): Not available  
Appearance: Amber liquid  
pH:  
Odor: Aliphatic

**10. STABILITY AND REACTIVITY DATA**

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

**11. TOXICOLOGICAL INFORMATION**

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
N-Heptane	CNS IRR	No	No	No
Aldehyde-amine condensation	No data	No	No	No
Isopropyl Alcohol	ALG BLO CNS IRR KID LIV BRA SPL	No	No	No

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Abbreviations

ALG	Allergen	LUN	Lungs	KID	Kidney	LIV	Liver
CNS	Central Nervous System	MUT	Mutagen	IRR	Irritant	BLO	Blood
BRA	Brain	SPL	Spleen				

**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		Ground: Consumer Commodity (Not more than one liter); Air: Consumer Commodity (Not more than one liter);
Hazard Class or Division:		Ground: ORM-D (Not more than one liter); Flammable liquid (More than one liter) Air: ORM-D (Not more than one liter); Flammable liquid (More than one liter)
Identification Number		None (Not more than one liter) UN 1993 (More than one liter)

IATA		
Proper Shipping Name:		Flammable liquid, n.o.s (Heptanes, Isopropanol)
Class or Division:		Class 3, Packing Group II
UN or ID Number:		UN 1993

IMO		
Substance		Flammable liquid, n.o.s (Heptanes, Isopropanol)
Marine Pollutant Status		Not a Marine Pollutant
Class		Class 3, PG II
Subsidiary Risk		None
IMDG Code Page		IMDG Code 2002 edition Vol.2, pg. 48
UN Number		UN 1993

**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)

None.

**16. PREPARATION INFORMATION**

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

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