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

PRODUCT IDENTIFICATION

Product Name: **TIM-818 EX (PART B)**
Product Number: **Delta Bond 156-K**
Product Type: **Activator**

II. COMPOSITION

Ingredients	%
N-Heptane	70 – 75
Aldehyde-condensate	20 – 25
Isopropyl Alcohol	1 – 3
Organocopper compound	0.01 – 0.1

III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure:	35 mm at 68ºF
Vapor Density:	3.45
Solubility in Water:	Nil
Specific Gravity:	0.736
Boiling Point:	205 - 215ºF
pH:	Does not apply
Appearance:	Amber liquid
Odor:	Aliphatic

IV. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash Point:	Approximately 30ºF Method: TCC
Estimated NFPA Code:	
Health hazard:	1
Fire Hazard:	3
Reactivity Hazard:	0
Specific Hazard:	Does not apply
Estimated HMIS Code:	
Health Hazard:	1
Flammability Hazard:	3
Reactivity Hazard:	0
Personal Protection:	See Section X
Explosive Limits:	
LEL:	1.1%
UEL:	6.7%
Recommended Extinguishing Agents:	CO2, Foam, Dry Chemical
Hazardous Products Formed by Fire Or Thermal Decomp:	Irritation organic vapors
Unusual Fire or Explosion Hazards:	None
Compressed Gases:	None
Pressure at Room Temp:	Does not apply

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V. SPILL OR LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case of spill or leak: Avoid flame and sparks. Maintain adequate ventilation. Soak up in an inert absorbent and store in a closed container until disposal

Recommended methods of disposal: Follow EPA and local regulations.

VI. STORAGE AND HANDLING PROCEDURES

Storage: Store below 120ºF in a tightly closed container away from strong oxidizing agents and sources of ignition.

Handling: Keep away from flames. Avoid prolonged breathing of fumes. Avoid skin or eye contact.

VII. SHIPPING REGULATIONS

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 1206 (More than one liter)	

IATA

Proper Shipping Name:	Heptane Solution
Class or Division:	Class 3, Packing Group II
UN or ID Number:	UN 1206

IMO

Substance	Heptane Solution
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 1206

VIII. REACTIVITY DATA

Stability:	Stable
Hazardous Polymerization:	Will not occur
Hazardous Decomposition Products (non-thermal):	None
Incompatibility:	Strong oxidizers

IX. EMERGENCY TREATMENT PROCEDURES

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.

X. PERSONAL PROTECTION

Eyes:	Safety glasses or goggles
Skin:	Impermeable rubber or plastic gloves.
Ventilation:	Sufficient to maintain vapor concentration below TLV.

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XI. HEALTH HAZARD DATA

Toxicity:	Possible eye irritant.
Primary Routes of Entry:	Heptane: Inhalation, ingestion, skin.
Signs and Symptoms of Exposure:	Dizziness, anesthesia, unconsciousness.
Existing Conditions Aggravated by Exposure:	Not known.

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	Other
N-Heptane	440 ppm TWA 160 mg/m^3	500 ppm TWA 2000 mg/m^3	None
Isopropyl Alcohol	440 ppm TWA 983 mg/m^3	400 ppm TWA 980 mg/m^3	None
Organocopper compound	Cu 0.2 mg/m^3 Fume Cu 1.0 mg/m^3 Dust	Cu 0.1 mg/m^3 Cu 1.0 mg/m^3 Dust	None

Exposure Limits (STEL)	ACGIH (TLV)	OSHA (PEL)
Isopropyl Alcohol	500 ppm 1230 mg/m^3	

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen NTP	IARC	OSHA
N-Heptane	NER	NO	NO	NO
Aldehyde-condensate	No Data	NO	NO	NO
Isopropyl Alcohol	GAS IRR NER REP	NO	N/A	NO
Organocopper compound	No Data	NO	NO	NO

Abbreviations

NER	Nervous System	GAS	Gastrointestinal	IRR	Irritant
REP	Reproduction				

XII. PREPARATION INFORMATION

Prepared by:	Prakash Khatri
Title:	Technical Director
Revision:	February, 2010

NOTICE

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