

MATERIAL SAFETY DATA SHEET

THOMAS & BETTS CORPORATION, 8155 T&B BOULEVARD, MEMPHIS, TENNESSEE 38125

T&B CATALOG NO: TY523M-NDT, TY525M-NDT, TY527M-NDT, &
TY528M-NDT
PRODUCT DESCRIPTION: Ty-Rap® DETECTABLE NYLON CABLE TIES
WITH STAINLESS STEEL LOCKING DEVICE

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REVISION: 0

DATE PREPARED: October 4, 2006

DOCUMENT NUMBER: MSDS-0174

SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: Ty-Rap® DETECTABLE CABLE TIES
GENERAL USE: MANAGEMENT OF WIRES OR CABLES BY FASTENING, BUNDLING, AND/OR CLAMPING.
PRODUCT DESCRIPTION: DETECTABLE NYLON CABLE TIE WITH STAINLESS STEEL LOCKING DEVICE
GENERIC INGREDIENT:

24 HOUR EMERGENCY TELEPHONE NUMBERS: CHEMTREC (703) 527-3887 / (800) 424-9300
FOR PRODUCT INFORMATION: CALL THOMAS & BETTS; (901) 252-5000 ext. 8324

SECTION 2 HAZARDOUS INGREDIENTS

OSHA HAZARDOUS INGREDIENTS

<u>HAZARDOUS COMPONENTS</u>	<u>CAS #</u>	<u>% BY WT</u>	<u>ACGIH TLV</u>	<u>ACGIH TLV-C</u>	<u>ACGIH STEL</u>	<u>OSHA PEL</u>	<u>OTHER LIMITS OF EXPOSURE</u>
ADIPIC ACID – HEXAMETHYLENEDIAMI NE RESIN (NYLON 6/6)	32131-17-2	73.0 – 73.5	10mg/m ³ (DUST) 3mg/m ³ (RESPIRABLE)	N/A	N/A	10mg/m ³ (DUST) 3mg/m ³ (RESPIRABLE)	N/A
IRON POLYMER	7439-89-6	12.8 – 12.9	N/A	N/A	N/A	N/A	N/A
BARIUM SULFATE	7727-43-7	4.9 - 5.0	N/A	N/A	N/A	N/A	N/A
NYLON COLORANT	N/A	7.9 - 8.0	N/A	N/A	N/A	N/A	N/A
STAINLESS STEEL 316L	N/A	0.6 – 1.4	N/A	N/A	N/A	N/A	N/A

NOTE:

COLORANT IS A MELTED PROPRIETARY FORMULATION BLEND OF RESIN, ADDITIVES AND/OR COLORANTS CONSIDERED TO BE NON-HAZARDOUS.

Ty-Rap® DETECTABLE NYLON CABLE TIES IS A MANUFACTURED ARTICLE AND CONSIDERED TO BE NON-HAZARDOUS.

SECTION 3 HEALTH INFORMATION & PROTECTION

CARCINOGENICITY

NTP? NONE LISTED
IARC MONOGRAPHS? NO EVALUATION
OSHA REGULATED? NOT REGULATED

ROUTES OF ENTRY

EYES?
INGESTION?
INHALATION?
SKIN?

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EMERGENCY OVERVIEW

NONE

HEALTH HAZARDS

ACUTE: NO SIGNIFICANT HAZARDS ASSOCIATED WITH THIS PRODUCT

CHRONIC: NO SIGNIFICANT HAZARDS ASSOCIATED WITH THIS PRODUCT

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: DUST MAY CAUSE EYE IRRITATION, AS WOULD ANY FOREIGN MATERIAL.

INGESTION: SIGNIFICANT ADVERSE HEALTH EFFECTS ARE NOT EXPECTED TO DEVELOP IF ONLY A SMALL AMOUNT IS SWALLOWED.

INHALATION: SLIGHTLY TOXIC IF INHALED.
ELEVATED PROCESSING TEMPERATURES MAY CAUSE RELEASE OF VAPORS, WHICH ARE IRRITATING IF INHALED.

SKIN: ELEVATED TEMPERATURES CAN CAUSE THERMAL BURNS.

POTENTIAL HEALTH EFFECTS

EYES CONTACT: SLIGHTLY IRRITATING TO THE EYES WITH DUST.

INGESTION: SLIGHTLY TOXIC IF SWALLOWED.

INHALATION: SLIGHTLY TOXIC IF INHALED VAPORS AT ELEVATED TEMPERATURES.

SKIN CONTACT: NO KNOWN SKIN EFFECTS.

FIRST AID MEASURES

EYES CONTACT: REMOVE ANY CONTACT LENS AND RINSE THE AFFECTED EYE IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES OR UNTIL ALL RESIDUAL MATERIAL IS DISLODGED OR GONE. IF IRRITATION OR REDNESS PERSISTS, SEEK MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

INHALATION: REMOVE FROM AREA TO FRESH AIR.

SKIN CONTACT: IMMEDIATELY WASH SKIN WITH SOAP AND WATER.

MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE

NONE KNOWN

WORKPLACE EXPOSURE CONTROLS

NONE REQUIRED

ENGINEERING / VENTILATION CONTROLS

NONE REQUIRED

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PERSONAL PROTECTION

EYE PROTECTION: USE GOOD INDUSTRIAL PRACTICE TO AVOID EYE CONTACT.

HAND PROTECTION: NONE REQUIRED DURING NORMAL USE.

RESPIRATORY PROTECTION: NONE REQUIRED DURING NORMAL USE.

SKIN PROTECTION: NONE REQUIRED DURING NORMAL USE.

VENTILATION: NONE REQUIRED

WORK/HYGIENIC: NONE REQUIRED

SECTION 4 FIRE & EXPLOSION HAZARDS

EXPLOSION DATA:

EXPLOSIVE PROPERTY: LEL: N/E UEL: N/E

EXTINGUISHING MEDIA: WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE

FIRE FIGHTING: FIREFIGHTERS, AND OTHERS EXPOSED, WEAR SELF -CONTAINED BREATHING APPARATUS. EQUIPMENT SHOULD BE THOROUGHLY DECONTAMINATED AFTER USE.

FLASH POINT: > 699.8° F (371° C)

HAZARDOUS COMBUSTION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, AMMONIA, HYDROGEN CYANIDE, NITROGEN OXIDES

SECTION 5 SPILL CONTROL MEASURES

CONTAINMENT

PROCEDURES: SPILLS CAN BE SWEEPED OR COLLECTED INTO A CONTAINER FOR DISPOSAL OR RECOVERY. PRODUCT MAY CAUSE A SLIP HAZARD.

CLEAN-UP

PROCEDURES: IN CASES OF SPILL, SWEEP AND REMOVE.

DISPOSAL: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 6 HANDLING & STORAGE

HANDLING

PROCEDURES: HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.

STORAGE

PROCEDURES: STORE IN ORIGINAL PACKAGING.

LABELING: NONE

SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES

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APPEARANCE:		AUTO-IGNITION	
		TEMPERATURE:	N/A
BOILING POINT:	N/A	COLOR:	BLUE
FLAMMABILITY:	N/A	EVAPORATIVE RATE:	N/A
ODOR:	NONE	FREEZING POINT:	N/A
PERCENT, VOLATILE BY VOLUME:	N/A	MELTING POINT:	N/A
PH:	N/A	OXIDIZING PROPERTIES:	N/A
SOLUBILITY IN WATER 68°F (20° C):	NIL	PERCENT, SOLIDS BY WEIGHT:	N/A
PHYSICAL STATE:	SOLID		
SOFTENING POINT (FINISH):	N/A	SOFTENING POINT (BASE METAL):	N/A
VAPOR DENSITY (AIR = 1):	N/A	SOLUBILITY IN ORGANIC SOLVENT:	N/A
VISCOSITY:	N/A	SPECIFIC GRAVITY (H₂O = 1):	N/A
VAPOR PRESSURE (mm Hg):	N/A	VOC CONTENT (lbs/gal):	N/A

SECTION 8 REACTIVITY DATA

CHEMICAL STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN

INCOMPATIBLE MATERIALS:

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, AMMONIA, HYDROGEN CYANIDE, NITROGEN OXIDES

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION 9 REGULATORY INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT)

PROPER SHIPPING NAME: NOT REGULATED

I.A.T.A. CLASSIFICATION

PROPER SHIPPING NAME: NOT REGULATED

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U.S. FEDERAL REGULATIONS

TSCA: THE PRODUCT COMPONENTS ARE ON THE EPA TSCA INVENTORY.

CERCLA: THE PRODUCT IS NOT CLASSIFIED AS A HAZARDOUS SUBSTANCE UNDER REGULATIONS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA), 40 CFR §302.

RCRA HAZARD CLASS: THE PRODUCT IS NOT CLASSIFIED AS A HAZARDOUS WASTE UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT, OR ITS REGULATIONS, 40 CFR §261 *et seq.*

CLEAN AIR ACT: THE PRODUCT IS NOT PROCESSED WITH OR DOES NOT CONTAIN ANY CLASS I OR CLASS II OZONE DEPLETING SUBSTANCES.

SARA TITLE III INFORMATION

SECTION 302: N/A

SECTION 311 / 312 THE FOLLOWING COMPONENT(S) OF THIS PRODUCT IS SUBJECT TO THIS REQUIREMENT: *NONE*

SECTION 313: THE FOLLOWING COMPONENT(S) OF THIS PRODUCT IS SUBJECT TO THIS REQUIREMENT: *NONE*

STATE REGULATIONS / RIGHT-TO-KNOW

CALIFORNIA PROPOSITION 65 INFORMATION:

THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCE(S) KNOWN TO BE ON THE CA PROP. 65 LIST: *NONE*

INTERNATIONAL

WHMIS (CANADA): THIS PRODUCT HAS BEEN CLASSIFIED ACCORDING TO THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CPR

THE CHEMICAL(S) LISTED ARE CONSIDERED CONTROLLED PRODUCT(S): *NONE*

LABELS: CANADIAN LABEL CLASSIFICATION REQUIRED ON CONTAINER(S): *NONE*

SECTION 10 NOTES

TOXICOLOGICAL INFORMATION

NONE

ECOLOGICAL INFORMATION

NO DATA AVAILABLE

HAZARD RATING SYSTEM

	HMIS	NFPA	KEY
HEALTH	1	1	4 = SEVERE
FLAMMABILITY	0	0	3 = SERIOUS
REACTIVITY	0	0	2 = MODERATE
			1 = SLIGHT
			0 = MINIMAL

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REVISION SUMMARY

0

SUPERCEDES ISSUE DATE

N/A

SECTION 11 OTHER INFORMATION

ABBREVIATIONS

N/E: NOT ESTABLISHED

N/A: NOT AVAILABLE

OTHER

R PHRASE: N/A

S PHRASE: N/A

T&B CATALOG NOS:

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND ACCURATE TO THE BEST OF THOMAS & BETTS CORPORATION KNOWLEDGE. THE INFORMATION RELATES TO THE SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE.