

MANUFACTURES OF VULCANIZED FIBRE*****

PRODUCT IDENTITY: TOYO VULCANIZED FIBRE

PRODUCT	COMPONENT	%	CAS REGISTRY NUMBER
HB-77 N (GRAY)	CELLULOSE (MOISTURE)	>99% (5.0~9.0%)	(7732-18-5)
	PIGMENTS/COLORANT	<0.01%	
	PIGMENT YELLOW-13		3520-72-7
	PIGMENT BLUE-15		147-14-8
	PIGMENT BLACK-7		1333-86-4
	ZINC CHLORIDE	<0.1%	7646-85-7

SECTION I - MANUFACTURER'S NAME AND ADDRESS:

THE TOYO FIBRE CO., LTD.
 888 OHTSUKA, NUMAZU
 SHIZUOKA, JAPAN 410-0306

EMERGENCY TELEPHONE NO. (055)966-1537
 NUMBER FOR INFORMATION: (055)967-2210

ORIGINAL ISSUED DATE: SEPTEMBER 17, 2002
 REVISION DATE: MAY 17, 2010

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION:

HAZARDOUS COMPONENTS:	OSHA PEL	ACGIH TLV	OTHER LIMITS	
			RECOMMENDED	%OPTIONAL

THIS PRODUCT IS VULCANIZED FIBRE CONSISTING OF PARTIALLY REGENERATED CELLULOSE (C6H10O5).
 OSHA PEL AND ACGIH TLV HAVE NOT BEEN ESTABLISHED FOR THIS MATERIAL.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS:

BOILING POINT: NA SPECIFIC GRAVITY: (H2O=1) 1.05-1.55
 VAPOR PRESSURE: (MM HG) NA MELTING POINT: NA
 VAPOR DENSITY: (AIR=1) NA EVAPORATION RATE: (BUTYL ACETATE=1) NA
 SOLUBILITY IN WATER: NA
 APPEARANCE AND ORDER: COLOR - AS ORDERED. NO ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: (METHOD USED) NA FLAMMABLE LIMITS: LEL: NA LEL: NA
 EXTINGUISHING MEDIA: WATER, CARBON DIOXIDE (CO2) OR FOAM.

SPECIAL FIRE FIGHTING PROCEDURES: USE CONVENTIONAL FIRE FIGHTING PROCEDURES USED FOR WOOD.
 SELF CONTAINED NIOSH/MSHA APPROVED BREATHING APPARATUS SHOULD BE WORN WHEN ENTERING A BURNING AREA.

UNUSUAL FIRE AND EXPLOSION HAZARDS: SMOKE AND TOXIC FUMES MAY BE RELEASED WHILE BURNING.

SECTION V - REACTIVITY DATA:

STABILITY: UNSTABLE: STABLE: X CONDITIONS TO AVOID: NA

INCOMPATIBILITY: (MATERIALS TO AVOID) STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE (CO₂), CARBON MONOXIDE (CO).

HAZARDOUS MAY OCCER _____ CONDITIONS TO AVOID : NA

POLYMERIZATION: WILL NOT OCCER X

SECTION VI - HEALTH HAZARD DATA:

ROUTE(S) OF ENTRY: AS DUST INHALATION? X SKIN? X INGESTION? X

HEALTH HAZARDS: (ACUTE AND CHRONIC) THIS PRODUCT MAY YEILD A NUSANCE DUST WHEN MACHINED OR SANDED.

CARCINOGENCITY: NTP? NO LARC MONOGRAPHS? NO OSHA REGULATED? NO

SIGNS AND SYMPTOMS OF EXPOSURE: DUST MAY CAUSE MINOR IRRATION TO EYES.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: INHALATION OF DUST MAY AGGRAVATE PRE-EXISTING RESPIRATORY DISODERS.

EMERGENCY AND FIRST AID PROCEDURES: DUST IN EYES, FLUSH WITH WATER

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: NA

WASTE DISPOSAL METHOD: LANDFILL OR INCINERATE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STRAGE: NA

OTHER PRECAUTIONS: NA

SECTION VIII - CONTROL MEASURES:

RESPIRATORY PROTECTION: (SPECIFY TYPE) AVOID INHALATION OF DUST. USE NIOSH/MSHA APPROVED DUST RESPIRATOR IF VENTILATION SYSTEM IS INADEQUATE.

VENTILATION: LOCAL EXHAUST: PREFERRED SPECIAL: NIOSH/MSHA APPROVED DUST
RESPIRATOR
MECHANICAL: (GENERAL) ENSURE OTHER: AIR FILTERED WORK BOOTHS
ADEQUATE VENTILATION

PROTECTIVE GLOVES: DESIRABLE TO PREVENT CUTS AND ABRASION.

EYE PROTECTION: SAFETY GLASSES, WITH FACESHIELD IF NECESSARY, OR GOGGLES WHEN MACHINING.

OTHER PROTECTIVE CLOTH OR EQUIPMENT: NA

WORK/HYGIENIC PRACTICES: WASH HANDS BEFORE HANDLING FOOD. DO NOT SMOKE, DRINK, OR EAT IN
DUSTY ATMOSPHERE DO NOT TAKE INTERNALLY.

SECTION IX - SARA SECTION 313 SUPPLIER NOTIFICATION:

THIS PRODUCT DOES NOT CONTAIN TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF
SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND
40 CFR PART 372.

THE INFORMATION CONTAINED HEREIN IS BASED UPON DATA TAKEN FROM SOURCES CONSIDERED TO BE
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