

BlazeMaster® TFP-500 One Step Solvent Cement MSDS (Material Safety Data Sheet)

TYCO		MATERIAL SAFETY DATA SHEET		Date Revised: AUG 2007 Supersedes: APR 2007							
Information on this form is furnished solely for the purpose of compliance with the U.S. Occupational Safety and Health Act, the Canadian Hazardous Products Act and Controlled Products Regulations and shall not be used for any other purpose. IPS Corporation urges the customers receiving this Safety Data Sheet to study it carefully to become aware of the hazards, if any, of the product involved. In the interest of safety, you should notify your employees, agents and contractors of the information on this sheet.											
SECTION I - PRODUCT INFORMATION											
MANUFACTURER'S NAME IPS Corporation for Tyco ADDRESS 17109 S. Main St., P.O. Box 379, Gardena, CA. 90248 U.S.A. (310) 898-3300		SUPPLIER'S NAME Tyco Fire and Building Products ADDRESS 451 North Cannon Avenue Lansdale, PA 19446, USA		Transportation Emergencies: CHEMTREC: (800) 424-9300 Medical Emergencies: 3 E COMPANY (24 Hour No.) (800) 451-8346 Business: Tyco (215) 362-0700							
CHEMICAL NAME and FAMILY Mixture of CPVC Resin and Organic Solvents			TRADE NAME: BLAZEMASTER® TFP 500 Low VOC Cement for CPVC Plastic Pipe								
SECTION II - HAZARDOUS INGREDIENTS, EXPOSURE LIMITS, TRANSPORT & WHMIS DATA											
None of the ingredients below are listed as carcinogens by IARC, NTP, OSHA or ACGIH.											
	CAS#	APPROX % BY WEIGHT	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL	LD50	LC50	DUPONT (A) AEL (B) STEL		
Chlorinated Polyvinyl Chloride Resin (CPVC)	68648-82-8	10 - 20	N. AP.		N. AP.		N. AP.	N. AP.			
Tetrahydrofuran (THF), Stabilized	109-99-9	30 - 60	50 PPM Skin	100 PPM Skin	200 PPM	250 PPM	Oral: 2880 mg/kg (rat)	Inhalation 3 hrs. 21,000 PPM (rat)	50 PPM	75 PPM	
Methyl Ethyl Ketone (MEK)	78-93-3	3 - 7	200 PPM	300 PPM	200 PPM	300 PPM	Oral: 3.98 g/kg (rat)	Inhalation 4 hrs. 4,000 PPM (rat)			
Cyclohexanone	108-94-1	1 - 5	20 PPM Skin		50 PPM		Oral: 1900 mg/kg (rat)	Inhalation LCLO, 4 hrs: 2000 PPM (rat)			
Acetone	67-64-1	7 - 13	500 PPM	750 PPM	750 PPM	1000 PPM	Oral: 9.75 g/kg (rat)	Inhalation LCLO 4 hrs: 16,000 PPM (rat)			
All of the constituents of IPS adhesive products are listed on the TSCA inventory of chemical substances maintained by the US EPA and/or the Canadian Domestic Substance List (DSL), or are exempt from such listings.											
(A) Dupont and BASF mfg's Acceptable Exposure Limit (AEL) guidelines for 8 hour and 12 hour TWA, (B) Dupont/BASF recommended STEL for 15 minute TWA.											
DOT, IATA, IMO/MDG SHIPPING INFORMATION				SPECIAL HAZARD DESIGNATIONS							
Proper Shipping Name: Adhesives		EXCEPTION: Case quantities of cement in containers of less than one liter may be shipped as LIMITED QUANTITY or CONSUMER COMMODITY, ORM-D		HEALTH:		HMIS		NFPA		HAZARD RATING	
Hazard Class: 3				FLAMMABILITY:		3		3		0 - MINIMAL	
Identification Number: UN 1133				REACTIVITY:		0		1		1 - SLIGHT	
Packing Group: II				PROTECTIVE EQUIPMENT:		B - H				2 - MODERATE	
Label Required: Flammable Liquid										3 - SERIOUS	
TDG INFORMATION											
TDG CLASS: FLAMMABLE LIQUID 3										4 - SEVERE	
SHIPPING NAME: ADHESIVES (TETRAHYDROFURAN)											
UN NUMBER: 1133, PG II											
WHMIS CLASSIFICATION: CONTROLLED PRODUCT											
CLASS B, DIVISION 2											
CLASS D, DIVISION 2B											
SECTION III - PHYSICAL DATA											
APPEARANCE Red, medium syrupy liquid		ODOR Ethereal (Threshold = 2-50 PPM)		BOILING POINT (°F/°C) 133°F (57°C)		FREEZING POINT -139°F (-95°C)		Based on Acetone			
SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°) Typical 1.0 ± 0.040		VAPOR PRESSURE (mm Hg.) 190 mm Hg. based on first boiling component, Acetone @ 68°F (20°C)		PERCENT VOLATILE BY VOLUME (%) Approx: 70 - 80 %							
VAPOR DENSITY (Air = 1) 2.49		EVAPORATION RATE (BUAC = 1) > 1.0		SOLUBILITY IN WATER Solvent portion completely soluble in water. Resin portion separates out.							
COEFFICIENT OF WATER/OIL DISTRIBUTION N. AV.			PH INFORMATION N. AP.								
VOC STATEMENT Maximum VOC emissions as applied and tested per SCAQMD Rule 1168, Test Method 316A: 490 grams/liter. After drying and curing there are negligible or no emissions.											

SECTION IV - FIRE AND EXPLOSION HAZARD DATA				
FLASH POINT	AUTO IGNITION TEMP.		FLAMMABLE LIMITS	LEL
-6°F (-21°C) T.C.C. Based on Acetone	609.8°F (321°C), THF		(PERCENT BY VOLUME)	2.0
FIRE EXTINGUISHING MEDIA				
Ansul "Purple K" potassium bicarbonate dry chemical, any appropriately sized ABC dry chemical, carbon dioxide or foam extinguisher can be used for small fires. Use of a water fog by trained personnel can extinguish small/large fires.				
SPECIAL FIRE FIGHTING PROCEDURES				
Evacuate enclosed areas. Stay upwind. Close quarters or confined spaces require self-contained breathing apparatus, positive pressure mask or airline mask. Use of a water fog by trained personnel can extinguish small/large fires and avoid water flow or water streams/spray distributing burning material or contaminated water over a large area or into sewers or storm drains. Use water spray to cool containers, to flush spills from source of ignition and to disperse vapors.				
UNUSUAL FIRE AND EXPLOSION HAZARDS SENSITIVITY TO MECHANICAL IMPACT: N. AP SENSITIVITY TO STATIC DISCHARGE: 0.25 Millijoules				
Fire hazard because of low flash point and high volatility. Vapors are heavier than air and may travel to source(s) of ignition at or near ground or lower level(s) and flash back. Refer to Section V for hazardous decomposition products.				
Hazardous Combustion Products When forced to burn, this product gives out carbon monoxide, carbon dioxide, hydrogen chloride and smoke.				fff-dC
SECTION V - REACTIVITY DATA				
STABILITY	UNSTABLE		CONDITIONS TO AVOID	
	STABLE	X	Keep away from heat, sparks, open flame and other sources of ignition.	
INCOMPATIBILITY (MATERIALS TO AVOID) Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.				
HAZARDOUS DECOMPOSITION PRODUCTS When exposed to the air, this product gives off flammable vapors/volatile organic compounds. Refer to Section IV.				
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID	
	WILL NOT OCCUR	X	Keep away from heat, sparks, open flame and other sources of ignition.	
SECTION VI - HEALTH HAZARD DATA & TOXICOLOGICAL PROPERTIES				
PRIMARY ROUTES OF ENTRY: X Inhalation X Skin Contact _____ Eye Contact _____ Ingestion				
TOXIC EXPOSURE VALUES: Refer to table in Section II for indications of carcinogenicity and Lethal Dose and Lethal Concentration exposure values				
EFFECT OF OVEREXPOSURE				
ACUTE:				
<u>Inhalation:</u> Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.				
<u>Skin Contact:</u> Skin irritant. Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.				
<u>Skin Absorption:</u> Prolonged or widespread exposure may result in the absorption of harmful amounts of material.				
<u>Eye Contact:</u> Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid. Vapors slightly uncomfortable.				
<u>Ingestion:</u> Moderately toxic. May cause nausea, vomiting, diarrhea. May cause mental sluggishness.				
CHRONIC: Symptoms of respiratory tract irritation and damage to respiratory epithelium were reported in rats exposed to 5000 ppm THF for 90 days. Elevation of SGPT suggests a disturbance in liver function. The NOEL was reported to be 200 ppm.				
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing diseases of the eyes, skin or respiratory system may have increased susceptibility to the toxicity of excessive exposures.				
REPRODUCTIVE EFFECTS	TERATOGENICITY	MUTAGENICITY	EMBRYOTOXICITY	SENSITIZATION TO PRODUCT
N. AP.	N. AP.	N. AP.	N. AP.	N. AP.
SYNERGISTIC PRODUCTS N. AV.				
SECTION VII - PREVENTIVE MEASURES				
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED				
Eliminate all ignition sources. Avoid breathing of vapors. Keep liquid out of eyes. Flush with large amount of water. Contain liquid with sand or earth. Absorb with sand or nonflammable absorbent material and transfer into steel drums for recovery or disposal. Prevent liquid from entering drains.				
WASTE DISPOSAL METHOD				
Follow local, State and Federal regulations. Consult disposal expert. Can be disposed of by incineration. Excessive quantities should not be permitted to enter drains. Empty containers should be air dried before disposing. CA Hazardous Waste Code: 214.				
RESPIRATORY PROTECTION (Specify type)				
Atmospheric exposure levels in employees' breathing zone should be maintained below established exposure limits contained in Section II. If airborne concentrations exceed those limits, use of a NIOSH approved organic vapor cartridge respirator with full face-piece is recommended. The effectiveness of an air purifying respirator is limited. Use it only for a single short-term exposure. For emergency and other conditions where short-term exposure guidelines may be exceeded, use an approved positive pressure air line or self-contained breathing apparatus.				
VENTILATION				
Use only with adequate ventilation. Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits set forth in Section II. Use only explosion proof ventilation equipment.				
PROTECTIVE GLOVES PVA coated rubber gloves for frequent dipping/immersion. Use of latex/nitrile surgical gloves or solvent resistant barrier creme should provide adequate protection when normal solvent-cement welding practices and procedures are used for making plastic welded pipe joints.			EYE PROTECTION Splashproof chemical goggles, face shield, safety glasses with brow guards and side shields, etc. as appropriate for exposure.	
OTHER PROTECTIVE EQUIPMENT AND HYGIENIC PRACTICES				
Impervious apron and a source of running water to flush or wash the eyes and skin in case of contact.				
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING				
Store in the shade between 40°F - 90°F (5°C - 32.5°C). Keep away from heat, sparks, open flame and other sources of ignition. Avoid prolonged breathing of vapor. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Train employees on all special handling procedures before they work with this product.				
OTHER PRECAUTIONS				
Follow all precautionary information given on container label, product bulletins and our solvent cementing literature. All material handling equipment should be electrically grounded.				

SECTION VIII - FIRST AID MEASURES**EMERGENCY AND FIRST AID PROCEDURES**

Inhalation: If overcome by vapors, remove to fresh air and if breathing stopped, give artificial respiration. If breathing is difficult, give oxygen. Call physician.

Eye Contact: Flush eyes with plenty of water for 15 minutes and call a physician.

Skin Contact: Remove contaminated clothing and shoes. Wash skin with plenty of soap and water for at least 15 minutes. If irritation develops, get medical attention.

Ingestion: Give 1 or 2 glasses of water or milk. Do not induce vomiting. Call physician or poison control center immediately.

SECTION IX - SDS PREPARATION INFORMATION

Prepared 22 Aug 2007 by: IPS Safety, Health & Environmental Affairs Department	Telephone number: (310) 898-3300	e-mail address <richard.winn@ipscorp.com>
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