IPEX

MATERIAL SAFETY DATA SHEET

Date Revised: OCT 2006 Supersedes: Original

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act and shall not be used for any other purpose. IPS Corporation urges the customers receiving this Material 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

MANUFACTURER'S NAME

IPS Corporation
ADDRESS

17109 S. Main St., P.O. Box 379, Gardena, CA. 90248 U.S.A.

Transportation Emergencies: CHEMTREC: (800) 424-9300

Medical Emergencies:

3 E COMPANY (24 Hour No.) (800) 451-8346

Business: (310) 898-3300

CHEMICAL NAME and FAMILY
Mixture of Organic Solvents

TRADE NAME:

IPEX System 636 Low VOC Primer for PVC/CPVC Plastic Pipe

SECTION II - HAZARDOUS INGREDIENTS

						_	_			
None of the ingredients below are listed as		APPROX %	ACGIH	ACGIH	OSHA	OSHA			DUPC	ONT
carcinogens by IARC, NTP, OSHA or ACGIH	CAS#	BY WEIGHT	TLV	STEL	PEL	STEL	LD50	LC50	(A) AEL	(B) STEL
Tetrahydrofuran (THF)	109-99-9	40-60	50 PPM	250 PPM	200 PPM	250 PPM	Oral: 2880 mg/kg (rat)	Inhalation 3 hrs.	50 PPM	75 PPM
								21,000 PPM (rat)		
Methyl Ethyl Ketone (MEK)	78-93-3	30-50	200 PPM	300 PPM	200 PPM	300 PPM	Oral: 3.98 g/kg (rat)	Inhalation 4 hrs.		
							Dermal: 8-10 mg/kg (rabbit)	4000 PPM (rat)		
Cyclohexanone	108-94-1	5-10	20 PPM Skin		50 PPM		Oral: 1900 mg/kg (rat)	Inhalation LCLO		
							Dermal: 1.0g/kg (rabbit)	4 hrs: 2,000 PPM (rat)		

All of the constituents of IPEX adhesive products are either listed on the TSCA inventory of chemical substances maintained by the US EPA and the Canadian Domestic Substance List or are exempt therefrom.

(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.

SPECIAL HAZARD DESIGNATIONS HAZARD RATING TDG INFORMATION HMIS NFPA 0 - MINIMAL TDG CLASS: FLAMMABLE LIQUID 3 HEALTH: 2 2 SHIPPING NAME: FLAMMABLE LIQUID. N.O.S. FLAMMABILITY: 3 3 1 - SLIGHT UN NUMBER: 1993, PG II REACTIVITY: 0 1 2 - MODERATE **PROTECTIVE** 3 - SERIOUS WHMIS CLASSIFICATION: CONTROLLED PRODUCT **EQUIPMENT:** B - H 4 - SEVERE

CLASS B, DIVISION 2

CLASS D, DIVISION 2

B = Eye, Hand/Skin (for normal solvent-welding activities)

H = Eye, Hand/Skin, Respiratory Protection and Impermeable Apron (splash/immersion risks)

SECTION III - PHYSICAL DATA

APPEARANCE	ODOR	BOILING POINT (°F/°C)	FREEZING POINT		
Clear or purple, thin liquid	Ethereal (Threshold = 2-50 PPM)	151°F (67°C)	-163 °F (-108.5°C)		
		Based	on THF		
SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°)	VAPOR PRESSURE (mm Hg.)	PERCENT VOLATILE BY \	PERCENT VOLATILE BY VOLUME (%)		
Typical 0.87 ± 0.040	143 mm Hg. based on first boiling	100%			
	component, THF @ 68°F (20°C)				
VAPOR DENSITY (Air = 1)	EVAPORATION RATE (BUAC = 1)	SOLUBILITY IN WATER			
2.49	> 1.0	Completely soluble in water			

COEFFICIENT OF WATER/OIL DISTRIBUTION

PH INFORMATION

7 Aqueous Solution

VOC STATEMENT:

N. AV.

Maximum VOC emission as applied and tested per SCAQMD Rule 1168, Test Method 316A: 550 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	UEL
-4°F (-20°C) T.C.C. Based on THF	609.8°F (321°C), THF	(PERCENT BY VOLUME)	2.0	11.8

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.

SECTION V - HEALTH HAZARD DATA								
PRIMARY ROUTES OF ENTRY:	XInhalatio	on	Х	Skin Contact	Eye Contact		Ingestion	
EFFECT OF OVEREXPOSURE ACUTE: Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages. Skin Contact: Skin irritant. Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact. Skin Absorption: Prolonged or widespread exposure may result in the absorption of harmful amounts of material. Sye Contact: Overexposure may result in severe eye injury with corneal or conjuctival inflammation on contact with the liquid. Vapors slightly uncomfortable. Ingestion: 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.								
REPRODUCTIVE EFFECTS TERATOGENICITY MUTAGENICITY EMBRYOTOXICITY SENSITIZATION TO PRODUCT SYNERGISTIC PRODUCTS N. AP. N. AP. N. AP. N. AP. N. AP. N. AV.								
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.								
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: 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 VI - REACTIVITY								
STABILITY UNSTABLE STABLE	X	CONDITIONS	TO AVOID)	d other sources of ignition.			
INCOMPATIBILITY (MATERIALS TO AVOID) Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates. HAZARDOUS DECOMPOSITION PRODUCTS When forced to burn, this product gives out carbon monoxide, carbon dioxide, hydrogen chloride and smoke. HAZARDOUS MAY OCCUR POLYMERIZATION WILL NOT OCCU X Keep away from heat, sparks, open flame and other sources of ignition.								
	SF	CTION VII	- SPI	II OR I FA	K PROCEDURES	<u> </u>		
SECTION VII - SPILL OR LEAK PROCEDURES 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. Hazardous Waste Code (CA): 214.								
SECTION VIII - SPECIAL PROTECTION INFORMATION								
RESPIRATORY PROTECTION (Specify type) Atmospheric levels 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 self-contained breathing apparatus.								
VENTILATION Use only with adequate ventilation (approximately ten (10) or more air changes per hour). 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 EYE PROTECTION Splashproof chemical gog- gles, 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.								
SECTION IX - SPECIAL PRECAUTIONS								
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in the shade between 40°F - 110°F (5°C - 43.7°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.								
The information contained herei thereof.	n is based on data con	sidered accurate. H	owever, no v	warranty is expressed or	implied regarding the accuracy of	this data or the results to be obtained	from the use	

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