IPS

WELD-ON

MATERIAL SAFETY DATA SHEET

Supersedes: FEB 2005

Date Revised: APR 2007

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

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

Solvent Cement for PVC Plastic Pipe

Mixture of PVC Resin and Organic Solvents

TRADE NAME:

WELD-ON 702, 704, 705, 707, 710, 711, 717, 719 and 721 for PVC Plastic Pipe

FORMULA: Proprietary

SECTION II - HAZARDOUS INGREDIENTS

None of the ingredients below are listed as							DUPO	NT
carcinogens by IARC, NTP or OSHA	CAS#	APPROX %	ACGIH-TLV	ACGIH-STEL	OSHA-PEL	OSHA-STEL	(A) AEL	(B) STEL
Polyvinyl Chloride Resin (PVC)	NON/HAZ		N/A		N/A			
Tetrahydrofuran (THF)**	109-99-9	25 - 70	50 PPM	100 PPM	200 PPM	250 PPM	50 PPM	75 PPM
Methyl Ethyl Ketone (MEK)	78-93-3	5 - 40*	200 PPM	300 PPM	200 PPM	300 PPM		
Cyclohexanone	108-94-1	1 - 15	20 PPM Skin		50 PPM			

All of the constituents of Weld-On adhesive products are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing

- * Title III Section 313 Supplier Notification: This product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40CFR372. This information must be included in all MSDS's that are copied and distributed for this material.
- (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. **Information found in a report from the National Toxicology Program (NTP) on an inhalation study in rats and mice suggests that Tetrahydrofuran (THF) can cause tumors in animals. In the study the rats and mice were exposed to THF vapor levels up to 1800 PPM for two years (their lifetime), 6 hours/day, 5 days/week. Test results showed evidence of liver tumors in female mice and kidney tumors in male rats. No evidence of tumors was seen in female rats and male mice. There is no data linking Tetrahydrofuran exposure with cancer in humans.

BULK SHIPPING INFORMATION / CONTAINERS LARGER THAN ONE LITER		SPECIAL HAZARD DESIGNATIONS				
DOT Shipping Name:	Adhesive		HMIS	NFPA	HAZARD RATING	
DOT Hazard Class:	3	HEALTH:	2	2	0 - MINIMAL	
Identification Number:	UN 1133	FLAMMABILITY:	3	3	1 - SLIGHT	
Packaging Group:	II	REACTIVITY:	0	1	2 - MODERATE	
Label Required:	Flammable Liquid	PROTECTIVE			3 - SERIOUS	
SHIPPING INFORMATIO	N FOR CONTAINERS LESS THAN ONE LITER	EQUIPMENT:	B - H		4 - SEVERE	
DOT Shipping Name:	Consumer Commodity	B = Eye, Hand/Skin (fo	or normal solvent-v	velding, smal	spill, clean-up activities)	
DOT Hazard Class:	ORM-D	H = Eye, Hand/Skin, Respiratory Protection and Impermeable Apron (splas				
		immersion risks)				

SECTION III - PHYSICAL DATA

APPEARANCE	ODOR	BOILING POINT (°F/°C)	FREEZING POINT
704 - clear or gray, medium syrupy liquid;			
705 - gray, clear or white, medium syrupy liquid;		151°F (67°C)	-163°F (-108.5°C)
702, 707 - clear, medium syrupy liquid;	Ethereal (Threshold = 2-50 PPM)		
710 - clear, thin syrupy liquid;		Based on	THF
711 - white or opaque gray, heavy syrupy liquid;			
717 - opaque gray, clear or white heavy syrupy liquid;			
719 - clear, gray, green or white, paste-like;			
721 - blue, medium syrupy liquid			
SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°)	VAPOR PRESSURE (mm Hg.)	PERCENT VOLATILE BY	VOLUME (%)
Variable by product ranging from 0.900 to 0.981 ± 0.040	143 mm Hg. based on first boiling	Approx: 80 - 90 %	
	component, THF @ 68°F (20°C)		
VAPOR DENSITY (Air = 1)	EVAPORATION RATE (BUAC = 1)	SOLUBILITY IN WATER	
2.49	> 1.0	Solvent portion completely	soluble in water.
		Resin portion separates ou	t.

VOC STATEMENT: VOC as manufactured: 850 Grams/Liter (g/l). Maximum VOC emission when applied and tested per SCAQMD Rule 1168, Test Method 316A: 600 g/l

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	FLAMMABLE LIMITS	LEL	UEL
-4°F (-20°C) T.C.C. Based on 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

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 may flash back ff-d

SECTION V - HEALTH HAZARD DATA									
PRIMARY RO	OUTES								
OF ENTRY:		X	_ Inhalation	X	Skin Contact		Eye Contact		Ingestion
EFFECT OF ACUTE:	OVEREXPO	SURE							
Inhalation:		Severe over	exposure may	result in nau	usea. dizziness. h	eadache. C	an cause drowsi	ness. irrita	ation of eyes and nasal passages.
Skin Contact:	<u>.</u>								nay occur with prolonged contact.
Skin Absorpti	on:		-	-	y result in the ab	-			· ·
Eye Contact:		Overexposu	re may result ir	n severe eye	e injury with corne	eal or conjuc	tival inflammatio	n on conta	act with the liquid. Vapors slightly uncomfortab
Ingestion:					omiting, diarrhea				
CHRONIC:					-			-	rats exposed to 5000 ppm THF for 90 days.
		Elevation of	SGP1 suggest	is a disturba	ince in liver functi	on. The NO	EL was reported	to be 200	ppm.
	REPRODUCT N. /		TERATOGENIC N. AP.		GENICITY EMBF	RYOTOXICITY N. AP.	SENSITIZATIO N. Al		DUCT SYNERGISTIC PRODUCTS N. AV.
MEDICAL CO	ONDITIONS A	AGGRAVATE	BY EXPOSU						ratory system may have increased
susceptibility	to the toxicity	of excessive	exposures.						
EMEDOENO	V AND FIDE	F AID DDOOF	DUDEC						
Inhalation:	Y AND FIRS	F AID PROCE		ovo to frock	oir and if broath	ing stannad	give ertificial rea	nirotion	If breathing is difficult, give oxygen. Call
IIIIaiation.		physician.	by vapors, rem	iove to itesi	i ali aliu ii biealii	ing stopped,	give artificial res	spiration.	in breathing is difficult, give oxygen. Call
Eve Contact:			with plenty of w	ater for 15 r	ninutes and call a	physician.			
Skin Contact:							f soap and water	r for at lea	st 15 minutes. If irritation develops, get
		medical atte	ntion.						
Ingestion:		Give 1 or 2 g	glasses of wate	er or milk. D	o not induce vom	iting. Call p	hysician or poise	on control	center immediately.
				SECT	ION VI - R	REACT	IVITY		
STABILITY	UNSTABLE			CONDITI	ONS TO AVOID				
	STABLE		Х	Keep awa	ay from heat, spa	rks, open fla	me and other so	ources of i	gnition.
INCOMPATIE									
				ic acids, chl	orinated compou	nds, strong	oxidizers and iso	cyanates.	
		SITION PROD		ovido oorb	on diovido budro	aan ahlarida	and smake		
HAZARDOUS		MAY OCC		Toxide, carb	on dioxide, hydro				
POLYMERIZ		WILL NOT		X				e and other	er sources of ignition.
	-				SPILL OI		•		-
07550 70 5	E TALKEN IN	0405 444				\ LLAI	V FINOCE	DUNL	_0
			RIAL IS RELEA			ah with large	a amount of water	r Contoir	liquid with good or corth. Abourb with
					ums for recovery				liquid with sand or earth. Absorb with
Sand of Hornin	ammable abc	orbent materi	ar arra transier	into stoci di	unis for recovery	or disposal.	r revent liquid ii	om emem	ig diams.
WASTE DISF	POSAL METH	HOD							
Follow local,	State and Fe	deral regulatio	ns. Consult dis	posal exper	t. Can be dispose	ed of by incir	neration. Excess	ive quantit	ies should not be permitted to enter
drains. Empty	y containers s	should be air d	ried before disp	oosing. Haz	ardous Waste Co	de (CA): 21	4.		
		S	FCTION	VIII - S	SPECIAL	PROTE	CTION II	NFOR	MATION
RESDIRATO	RV PROTEC	TION (Specify		· · · · ·	J. LUI/\L				
				shed exposi	re limits containe	ed in Section	II If airborne co	ncentratio	ons exceed those limits, use of a NIOSH
approved org	anic vapor ca	rtridge respira	tor with full fac	e-piece is re	ecommended. Th	e effectivene	ess of an air puri	fvina respi	irator is limited. Use it only for a single
									approved positive pressure
self-contained breathing apparatus.									
VENTILATIO							.,		
									e airflow and air changes. Use local exhaust
ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed in Section II. Use only explosion-proof ventilation									
equipment. PROTECTIVI	F GLOVES	PVA coated	rubber gloves	for frequent	dipping/immersion	n Use of la	atex/nitrile	FYF PR	OTECTION Splashproof chemical goggles,
			•		lequate protection			I	eld, safety glasses (spectacles) with brow
				-	ding of plastic she			I	& side shields, etc. as appropriate for exposure
OTHER PRO	TECTIVE EC	UIPMENT AN	ID HYGIENIC F	PRACTICES	3				
					e eyes and skin i	n case of co	ntact.		
			SEC	TION	IY - SDEC	NAI DI	DECALITI	ONG	
SECTION IX - SPECIAL PRECAUTIONS PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING									
					u from boot once	lia anan fla	ma and ather as	urana af ia	unition. Avoid prolonged broothing of voner
									Inition. Avoid prolonged breathing of vapor. res before they work with this product.
Use with ade	quate veritiidi	ion. Avoiu col	naci willi eyes,	JAIII AIIU UI	zamiy. Halil ellip	ioye c s un al	ı əpeciai nanulli	g procedu	Too before they work with this product.
OTHER PRE	CAUTIONS								
		formation give	n on container	label, produ	ct bulletins and o	ur solvent c	ementing literatu	re. All ma	terial handling equipment should be
electrically grounded.									