IPS

WELD-ON

MATERIAL SAFETY DATA SHEET

Date Revised: APR 2007

Supersedes: FEB 2005

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

								1
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			remineral seminary
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			1

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:	(#	REACTIVITY:	0	1	2 - MODERATE	
Label Required;	Flammable Liquid	PROTECTIVE			3 - SERIOUS	
SHIPPING INFORMATION FOR CONTAINERS LESS THAN ONE LITER		EQUIPMENT:	B-H		4 - SEVERE	
DOT Shipping Name:	Consumer Commodity	B = Eye, Hand/Skin (for	normal solvent-v	velding, small	spill, clean-up activities)	
manus			spiratory Protect	piratory Protection and Impermeable Apron (splash/		
	•	immercian ricke)		•		

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;	a de la companya de l	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 \pm 0.040	143 mm Hg. based on first boiling	Approx: 80 - 90 %				
	component, THF @ 68°F (20°C)	1				
VAPOR DENSITY (Air = 1)	EVAPORATION RATE (BUAC = 1)	SOLUBILITY IN WATER				
2.49	> 1.0	Solvent portion completely soluble in water.				

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 grams/Liter (g/l).

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Resin portion separates out,

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

SECTION V - HEALTH HAZARD DATA							
PRIMARY ROUTES			***************************************	· · · · · · · · · · · · · · · · · · ·	***************************************		
OF ENTRY:	X	Inhalation	X	Skin Contact	Eye Contact	Ingestion	
EFFECT OF OVEREXPOS	URE						
ACUTE:						•	
Inhalation:	Severe overe:	xposure may r	esult in nau	usea, dizziness, headac	he. Can cause drowsir	sess irritation of eyes and nacal naccages	
Skin Contact:	Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages. Skin irritant. Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.						
Skin Absorption:	Skin mana. Explore or under may remove natural skin rules resulting in skin irritation. Dermatitis may occur with prolonged contact.						
Eye Contact:	Prolonged or widespread exposure may result in the absorption of harmful amounts of material.						
Ingestion:	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7						
CHRONIC:	Sumptome of	roonimton tro	e Hausea, \ ot issitotion	onling, dames, May	cause mental sluggish	ness.	
	Elevation of S	GPT suggests	s a disturba	unce in liver function. The	ory epithelium were rej e NOEL was reported i	ported in rats exposed to 5000 ppm THF for 90 days, to be 200 ppm,	
REPRODUCTI	VE EFFECTS	TERATOGENIC	ITY MUTA	GENICITY EMBRYOTO		TO PRODUCT SYNERGISTIC PRODUCTS	
N. A MEDICAL CONDITIONS A		. N. AP. BY EXPOSUR	RE: Individu	N. AP. N. A lals with pre-existing dis	.P. N. AF eases of the eves skir	N. AV. n or respiratory system may have increased	
susceptibility to the toxicity	of excessive e	xposures.					
EMERGENCY AND FIRST			4- F				
Inhalation:	physician.	by vapors, rem	ove to frest	n air and it breathing sto	pped, give artificial res	piration. If breathing is difficult, give oxygen. Call	
Eye Contact:	Flush eyes w	ith plenty of wa	ater for 15 i	minutes and call a physi	cian.		
Skin Contact:	Remove cont medical atten	aminated cloth	ning and sh	oes. Wash skin with ple	enty of soap and water	for at least 15 minutes. If irritation develops, get	
Ingestion:			rormilk, D	o not induce vomitina.	Call physician or poiso	n control center immediately.	
STABILITY UNSTABLE		T		ION VI - REA	CHVITY		
STABLE		×		ay from heat, sparks, or	en flame and other so	urces of ignition.	
INCOMPATIBILITY	Cauatian aman			-			
(MATERIALS TO AVOID) HAZARDOUS DECOMPO	SITION PROD	ucts	c acids, cn	iorinatea compounas, st	fong oxidizers and iso	cyanates.	
When forced to burn, this p	product gives o	ut carbon mor	oxide, carb	on dioxide, hydrogen ch	loride and smoke.	•	
HAZARDOUS	MAY OCCU		T	CONDITIONS TO			
POLYMERIZATION	WILL NOT	OCCUR	X	Keep away from he	eat, sparks, open flam	e and other sources of ignition,	
		SECTIO	N VII .	SPILL OR LI	EAK DROCE	NIIDEC	
OTENO TO DE TANGELLO			·····		-AN FIVOL	DUNES	
STEPS TO BE TAKEN IN							
sand or nonflammable abs	es. Avoid breat orbent materia	thing of vapors I and transfer i	. Keep liqu into steel d	id out of eyes. Flush with rums for recovery or disp	n large amount of wate posal. Prevent liquid fro	r. Contain liquid with sand or earth. Absorb with om entering drains.	
WASTE DISPOSAL METH	iOD.						
		a Canalit dia		- A	. ـ بر د د د		
desire Front state and Fed	aerai regulation	is. Consuit dis	posai expe	rt. Can be disposed of b	y incineration. Excessi	ve quantities should not be permitted to enter	
drains. Empty containers s	hould be air dr	ried before disp	osing. Haz	rardous Waste Code (C/	A): 214.		
	S	ECTION	VIII - :	SPECIAL PRO	DTECTION II	NFORMATION	
RESPIRATORY PROTEC	TION (Specify	type)	***************************************				
Atmospheric levels should	be maintained	l below establis	shed expos	ure limits contained in S	ection II. If airborne co	ncentrations exceed those limits, use of a NIOSH	
approved organic vapor ca	irtridge respirat	tor with full fac	e-piece is r	ecommended. The effec	tiveness of an air purit	ving respirator is limited. Use it only for a single	
short-term exposure. For e	mergency and	other conditio	ns where s	hort-term exposure guid	elines may be exceede	ed, use an approved positive pressure	
self-contained breathing apparatus.							
VENTILATION	***************************************	· · · · · · · · · · · · · · · · · · ·					
	mtilati	ad toma to t			2.		
Use Unity With adequate Ve	rimation. Do no	ot use in close	quarters or	contined spaces. Oper	n doors and/or window	s to ensure airflow and air changes. Use local exhaust	
ventilation to remove airbo	rne contamina	nts from emplo	yee breath	ing zone and to keep.co	ontaminants below leve	els listed in Section II. Use only explosion-proof ventilat	
equipment.						. , , ,	
PROTECTIVE GLOVES	PVA coated	rubber gloves	for frequen	t dipping/immersion. Us	e of latex/nitrile	EYE PROTECTION Splashproof chemical goggles,	
surgical gloves or solvent	resistant barrie	r cream should	d provide a	dequate protection wher	normal solvent-	face shield, safety glasses (spectacles) with brow	
cement welding practices	and procedure	s are used for	solvent wel	ding of plastic sheet/nin	e ioints.	guards & side shields, etc. as appropriate for exposur	
OTHER PROTECTIVE EC						3	
Impervious apron and a so					e of contact		
				IX - SPECIAL	_ PRECAUTI	ONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING							
Store in the shade betwee	n 40°F - 110°F	(5°C - 43.7°C). Keep aw	ay from heat, sparks, op	en flame and other so	urces of ignition. Avoid prolonged breathing of vapor.	
Use with adequate ventilat	tion. Avoid con	tact with eyes,	skin and c	lothing. Train employees	on all special handlin	g 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.					•	Q + 4 - 5 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	
The information as at the state of the state	ala la fiare de la la						
the use thereof.	en is pased on d	ata considered a	ccurate. Hov	vever, no warranty is expres	sed or implied regarding t	ne accuracy of this data or the results to be obtained from	

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