IPS WELD-ON

MATERIAL SAFETY DATA SHEET

Date Revised; SEP 2003

Supersedes: SEP 2002

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 or 3 E COMPANY (800) 451-8346

Medical Emergencies:

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

Business: (310) 898-3300

CHEMICAL NAME and FAMILY

Solvent Cement for CPVC Plastic Pipe

Mixture of CPVC Resin and Organic Solvents

TRADE NAME:

WELD-ON 724 Low VOC Cement for CPVC Plastic Pipe

FORMULA: Proprietary

SECTION II - HAZARDOUS INGREDIENTS

None of the ingredients below are listed as							DUPON	ŧΤ
carcinogens by IARC, NTP or OSHA	CAS#	APPROX %	ACGIH-TLV	ACGIH-STEL	OSHA-PEL	OSHA-STEL	(A) AEL	(B) STEL
Chlorinated Polyvinyl Chloride Resin (CPVC)	NON/HAZ	20 - 25	N/A		N/A			
Tetrahydrofuran (THF)**	109-99-9	50 - 70	200 PPM	250 PPM	200 PPM	250 PPM	50 PPM	75 PPM
Methyl Ethyl Ketone (MEK)	78-93-3	2 - 10*	200 PPM	300 PPM	200 PPM	300 PPM		
Cyclohexanone	108-94-1	5 - 15	25 PPM Skin		25 PPM Skin			

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's Acceptable Exposure Limit (AEL) guidelines for 8 hour and 12 hour TWA. (B) Dupont's 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 INFORMA	ATION / CONTAINERS	LARGER THAN ONE LITER
DOT Shipping Name:	Adhasiya	

DOT Shipping Name: DOT Hazard Class:

3

Identification Number:

UN 1133

Packaging Group: Label Required:

Flammable Liquid

SHIPPING INFORMATION FOR CONTAINERS LESS THAN ONE LITER

DOT Shipping Name:

Consumer Commodity

DOT Hazard Class:

ORM-D

SPECIAL HAZARD DESIGNATIONS
HMIS NFPA HAZARD RATING

 HEALTH:
 2
 2
 0 - MINIMAL

 FLAMMABILITY:
 3
 3
 1 - SLIGHT

 REACTIVITY:
 0
 1
 2 - MODERATE

 PROTECTIVE
 3 - SERIOUS

 EQUIPMENT:
 B - H
 4 - SEVERE

B = Eye, Hand/Skin (for normal solvent-welding, small spill, clean-up activities) H = Eye, Hand/Skin, Respiratory Protection and Impermeable Apron (splash/

immersion risks)

SECTION III - PHYSICAL DATA

APPEARANCE	ODOR	BOILING POINT (°F/°C)
Gray or orange, heavy syrupy liquid	Ethereal	151°F (67°C) Based on first boiling component: THF
SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°)	VAPOR PRESSURE (mm Hg.)	PERCENT VOLATILE BY VOLUME (%)
Typical 0,980 ± 0,040	143 mm Hg. based on first boiling	Approx: 70 - 85%
	component, THF @ 20°C (68°F)	·
VAPOR DENSITY (Air = 1)	EVAPORATION RATE (BUAC = 1)	SOLUBILITY IN WATER
2.49	> 1.0	Solvent portion completely soluble in water.
1		Resin nortion senarates out

VOC STATEMENT: Maximum VOC emissions as applied and tested per SCAQMD Rule 1168, Test Method 316A: 490 Grams/Liter (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 flash back.

		SEC	V NOITS	- HEALT	TH HAZ	ARD DAT	ГΑ		
PRIMARY ROUTES OF ENTRY:	×	Inhalation	Х	Skin Contact		Eye Contact		Ingestion	
EFFECT OF OVEREXPOS	BURE								
ACUTE:	_								
Inhalation:								ion of eyes and nasa	
Skin Contact:		,	•		-			ay occur with prolon	ged contact.
Skin Absorption:	-			esult in the abso					
Eye Contact:		•						ict with the liquid. Va	pors slightly uncomfortable
Ingestion: CHRONIC:		•		iiting, diarrhea. d damaga to ra	•			ate exposed to 5000	ppm THF for 90 days.
· · · · · · · · · · · · · · · · · · ·				in liver functio					ppm m ior oo days.
REPRODUCT N. A		ERATOGENICITY	MUTAGENIC N. AP		OXICITY SEN	ISITIZATION TO F		SYNERGISTIC PRODU N. AV.	JCTS
MEDICAL CONDITIONS A susceptibility to the toxicity	AGGRAVATED E	BY EXPOSURE							e increased
EMERGENCY AND FIRST	T AID DDAACEN	· ·		 					
Inhalation:			ovo to from hai	ir and if broath	ing stanged	nivo artificial ro	cnitation	If broathing is diffic	cult, give oxygen. Call
<u>mnamon.</u>	physician.	oy vapors, rem	046 10 116311 0	ii and ii breatti	ing stopped,	give aitiliciai ie	эрпаноп.	in preauting is diffic	uit, give oxygen. Can
Eye Contact:		ith plenty of wa	ater for 15 min	utes and call a	physician.				
Skin Contact:						oap and water	for at leas	st 15 minutes. If irrite	ation develops, get
	medical attent				(2)			·	
Ingestion:	Give 1 or 2 gl	lasses of water	ormilk. Dor	not induce vom	iting. Call ph	ysician or poisc	on control	center immediately.	
	-		SECTIO	N VI - R	EACTIV	ITY			
STABILITY UNSTABLE	<u> </u>			IS TO AVOID					
STABLE		X	Keep away	from heat, spai	rks, open flam	e and other so	urces of i	gnition.	
INCOMPATIBILITY									
(MATERIALS TO AVOID)	Caustics, ammo	nia, inorganic	acids, chlorina	ted compounds	s, strong oxidi:	zers and isocya	nates.		
HAZARDOUS DECOMPO									
When forced to burn, this	product gives ou	t carbon mono	xide, carbon d			d smoke.			. (
HAZARDOUS	MAY OCCU			CONDITION					
POLYMERIZATION	WILL NOT C		X					er sources of ignition.	
	S	ECTION	VII - SP	ILL OR I	LEAK P	ROCEDL	JRES		
STEPS TO BE TAKEN IN	CASE MATERIA	L IS RELEASE	D OR SPILLED)				<u> </u>	
Eliminate all ignition source	es. Avoid breath	ing of vapors.	Keep liquid out	t of eyes. Flust	with large an	nount of water.	Contain I	iquid with sand or ea	rth, Absorb with
sand or nonflammable abs				•				•	
		·····							•
WASTE DISPOSAL METHO									
Follow local, State and Fe						tion. Excessive	quantitie	s should not be perm	itted to enter
drains. Empty containers s	hould be air drie	d before dispo	sing. Hazardot	us Waste Code	(CA): 214.			•	
	SE	CTION V	/III - SPE	CIAL PF	ROTECT	ION INFO	ORMA	ATION	
RESPIRATORY PROTEC					·				
Atmospheric levels should	be maintained b	elow establish	ed exposure li	mits contained	in Section II.	If airborne cond	entration	s exceed those limits	, use of a NIOSH
approved organic vapor ca									
short-term exposure. For e		ther conditions	where short-t	erm exposure (guidelines ma	y be exceeded,	use an a	pproved positive pres	sure .
self-contained breathing ap	oparatus.					*			
VENTILATION								-	:
Use only with adequate ve		-			-				
ventilation to remove airbo	rne contaminant	ts from employ	ee breathing z	one and to kee	p contaminan	ts below levels	listed in	Section II. Use only	explosion-proof ventilation
equipment.				 					
PROTECTIVE GLOVES		_	, ,	ping/immersion			!	·	hproof chemical goggles,
surgical gloves or solvent						olvent-			(spectacles) with brow
cement welding practices a	and procedures a	are used for ma	iking plastic we	eided pipe joint	s,		guards	and side shields, etc re	, as appropriate for
OTHER PROTECTIVE EQ	UIPMENT AND	HYGIENIC PR	ACTICES				CYPOON		
Impervious apron and a sc	ource of running	water to flush	or wash the ey	yes and skin in	case of conta	ict.			
		SECT	ION IX -	SPECIA	L PREC	AUTION	S		
PRECAUTIONS TO BE TA	KEN IN HANDL	ING AND STO	RING						<u> </u>
Store in the shade betwee Use with adequate ventilat	· ·						-		
OTHER PRECAUTIONS				•					
Follow all precautionary inf	formation diven o	n container let	set product his	Illetins and our	salvent como	stina literaturo	All materi	al handling equipmen	it should be
electrically grounded.	omanon Aiven (w consumer lat	zor, produce bu	mouris and val	POLACHI PEHIN	any meratare.	rai matelli	a canomy equipmen	COMMUNICATION
, -									
The information contained herein the use thereof,	is based on data cor	nsidered accurate.	However, no warr	ranty is expressed of	or implied regardli	ng the accuracy of t	this data or t	he results to be obtained fr	om
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IPS

WELD-ON

MATERIAL SAFETY DATA SHEET

Date Revised: MAR 2008

Supersedes: NOV 2007

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SECTION I - PRODUCT INFORMATION

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

Mixture of Organic Solvents Adhesive Primer for Plastic TRADE NAME:

WELD-ON P-70 Low VOC Primer for PVC and CPVC Plastic Pipe

FORMULA: Proprietary

SECTION II - HAZARDOUS INGREDIENTS, EXPOSURE LIMITS, & TRANSPORT DATA

None of the ingredients below are listed a	as							
carcinogens by IARC, NTP or OSHA	CAS#	APPROX %	ACGIH-TLV	ACGIH-STEL	OSHA-PEL	OSHA-STEL	LD50	LC50
Tetrahydrofuran (THF)**	109-99-9	45 - 59	#50 PPM Skin	100 PPM	200 PPM	250 PPM	Oral: 2880 mg/kg (rat)	Inhalation 3 hrs.
								21,000 PPM (rat)
Methyl Ethyl Ketone (MEK)	78-93-3	19 - 29*	200 PPM	300 PPM	200 PPM	300 PPM	Orał: 3.98 g/kg (rat)	Inhalation 4 hrs.
							Dermal: 8-10 mg/kg (rabbi	t) 4000 PPM (rat)
Cyclohexanone	108-94-1	5 - 15	20 PPM Skin		50 PPM		Oral: 1900 mg/kg (rat)	Inhalation LCLO (rat)
							Dermal: 1.0 g/kg (rabbit)	4 hrs: 2,000 PPM
Acetone	67-64-1	5 - 20	500 PPM	750 PPM	750 PPM	1000 PPM	Oral: 9.75 g/kg (rat)	Inhalation LCLO
							Dermal: 20 g/kg (rabbit)	4 hrs: 16,000 PPM (rat)

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^{**}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 INFOR		SPECIAL HAZ	ARD DESIG	NATIONS	· ·	
DOT Shipping Name:	Flammable Liquid, n.o.s.		HMIS	NFPA	HAZARD RATING	
	(Tetrahydrofuran, Methyl Ethyl Ketone)	HEALTH:	2	2	0 - MINIMAL	
DOT Hazard Class:	3	FLAMMABILITY:	3	3	1 - SLIGHT	
Identification Number:	UN 1993	REACTIVITY:	. 0	1	2 - MODERATE	
Packaging Group:		PROTECTIVE			3 - SERIOUS	
Label Required:	Flammable Liquid	EQUIPMENT:	B - H		4 - SEVERE	
SHIPPING INFORMATION	N FOR CONTAINERS LESS THAN ONE LITER	B = Eye, Hand/Skin (fo	or normal solvent-	welding activ	ities)	
DOT Shipping Name:	Consumer Commodity	H = Eye, Hand/Skin, Respiratory Protection and Impermeable Apron (splash/				
DOT Harried Olever	OBLED		- *			

		ECTION III - PHYSICAL DATA
DOT Hazard Class:	ORM-D	immersion risks)
	a dilitari a di midani	i i = Lyc, rand/Onlii, ricopitatory i toteotion and impermeable Ap

APPEARANCE	ODOR	BOILING POINT (%/°C)
Purple or clear, thin liquid	Ethereal	151 °F (67 °C) Based on first boiling component: THF
SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°)	VAPOR PRESSURE (mm Hg.)	PERCENT VOLATILE BY VOLUME (%)
Typical 0.860 ± 0.040	143 mm Hg. based on first boiling component, THF @ 68 *F (20 °C)	100%
VAPOR DENSITY (Air = 1)	EVAPORATION RATE (BUAC = 1)	SOLUBILITY IN WATER
2.49	> 1.0	Completely soluble in water.

VOC STATEMENT: Maximum VOC emissions when applied and tested per SCAQMD Rule 1168, Test Method 316A: 550 Grams/Liter (g/l).

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	FLAMMABLE LIMITS	LEL	ŲEL
-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 guarters 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 flash back.

Shoot 1 of 2

ff-d

^{*} 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.

[#] Invista and BASF Acceptable Exposure Limits (AEL) guidelines for 8 hour and 12 hour TWA, Invista/BASF recommended STEL for 15 minute TWA: 75 PPM.