IPS

WELD-ON

MATERIAL SAFETY DATA SHEET

Date Revised: NOV 2007 Supersedes: 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 - 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 Primer for PVC and CPVC Plastic Pipe

FORMULA: Proprietary

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

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None of the ingredients below are listed carcinogens by IARC, NTP or OSHA	as CAS#	APPROX %	ACGIH-TLV	ACGIH-STEL	OSHA DEI	OSHA-STEL	LD50	LC50
carcinogens by IANO, INTE OF OSTIA	CA3#	AFFRUX /	ACGIII-ILV	ACGIII-STEE	OSHA-FEL	OSHA-SILL	LD30	LC30
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	Oral: 3.98 g/kg (rat)	Inhalation 4 hrs.
							Dermal: 8-10 mg/kg (rabbit)	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)

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.

^{**}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.

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BULK SHIPPING INFOR	SPECIAL HAZARD DESIGNATIONS						
DOT Shipping Name:	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:	II	PROTECTIVE			3 - SERIOUS		
Label Required:	Flammable Liquid	EQUIPMENT:	B - H		4 - SEVERE		
SHIPPING INFORMATION	B = Eye, Hand/Skin (for normal solvent-	welding activ	vities)			
DOT Shipping Name:	H = Eye, Hand/Skin,	Respiratory Protect	tion and Imp	ermeable Apron (splash/			

DOT Hazard Class: ORM-D immersion risks)

	SECTION III - PHYSICAL DATA	
EARANCE	ODOR	ī

APPEARANCE	ODOR	BOILING POINT (°F/°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	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.

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	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 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

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^{*} 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.

SECTION V - HEALTH HAZARD DATA								
PRIMARY ROUTES OF ENTRY:		Х	Inhalation	Х	Skin Contact	Eye Contact	Ingestion	
EFFECT OF ACUTE: Inhalation:								
Skin Contact: Skin irritant. Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.						ermatitis may occur with prolonged contact.		
Skin Absorption: Prolonged or widespread exposure may result in the absorption of harmful amounts of material. Overexposure may result in severe eye injury with corneal or conjuctival inflammation on contact with the liquid. Vapors slightly unco								
Ingestion:		Moderately	toxic. May cause	nausea, v	omiting, diarrhea.	May cause mental sluggish	nness.	
CHRONIC:	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.								
	ONDITIONS AC			E: Individu	als with pre-existir	g diseases of the eyes, ski	n or respiratory system may have increased	
	Y AND FIRST							
Inhalation:		physician.					spiration. If breathing is difficult, give oxygen. Call	
Eye Contact: Skin Contact:		,	, ,		minutes and call a oes. Wash skin w	. ,	r for at least 15 minutes. If irritation develops, get	
Ingestion:		medical atte		or milk. D	o not induce vomi	ting. Call physician or poise	on control center immediately.	
							, 	
STABILITY	UNSTABLE			CONDITI	ONS TO AVOID	N VI - REACTIV	IIY	
INCOMPATIE	STABLE		Х	Keep awa	ay from heat, spark	ks, open flame and other so	ources of ignition.	
(MATERIALS				acids, chl	orinated compound	ds, strong oxidizers and iso	cyanates.	
When forced	to burn, this p	roduct gives	out carbon mon	oxide, carb		en chloride and smoke.		
HAZARDOUS POLYMERIZA		MAY OCC		Х	CONDITIONS Keep away from		e and other sources of ignition.	
1 OLIMEI (IL)	111011	WILLING				LEAK PROCE		
			RIAL IS RELEAS	ED OR SF	PILLED			
						h with large amount of wate or disposal. Prevent liquid f	er. Contain liquid with sand or earth. Absorb with rom entering drains.	
WASTE DISF	POSAL METHO	OD						
					t. Can be disposed ardous Waste Cod		ive quantities should not be permitted to enter	
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 org	anic vapor car	tridge respi	rator with full face	-piece is r	ecommended. The	e effectiveness of an air pur	ifying respirator is limited. Use it only for a single	
	posure. For er d breathing ap		na otner condition	s wnere si	nort-term exposure	e guidelines may be exceed	ed, use an approved positive pressure	
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.								
surgical glove	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 (spectacles) 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.								
Follow all pre	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 the use thereof.		n is based on	data considered acc	urate. Howe	ver, no warranty is ex	pressed or implied regarding the	e accuracy of this data or the results to be obtained from	
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