IPS

WELD-ON

MATERIAL SAFETY DATA SHEET

Date Revised: FEB 2007 Supersedes: NOV 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 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 PVC Resin and Organic Solvents

TRADE NAME:

Weld-On 793, 794, 796 Transition Cement for ABS to PVC Plastic Pipe

SECTION	ш	\mathbf{L}	7 ^	\mathbf{D}		INIA	\sim D		NITC
SECTION	-	ПА	\boldsymbol{L}		DUUS	114	σп	CUICI	VIO

			14 11 11/7							
None of the ingredients below are listed as		APPROX %	ACGIH	ACGIH	OSHA	OSHA			DU	PONT
carcinogens by IARC, NTP, OSHA or ACG	⊢ CAS#	BY WEIGHT	TLV	STEL	PEL	STEL	LD50	LC50	(A) AEL	(B) STEL
Polyvinyl Chloride Resin (PVC)	9002-86-2	10-25	N. AP.	N. AP.	N. AP.	N. AP.	N. AP.	N. AP.		
Tetrahydrofuran (THF)	109-99-9	40-55	50 PPM	100 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	20-40	200 PPM	300 PPM	200 PPM	300 PPM	Oral: 3.98 g/kg (rat)	Inhalation 4 hrs.		
							Dermal: 8-10 mg/kg (rabb	it) 4000 PPM (rat)		
Cyclohexanone	108-94-1	2-10	20 PPM Skin		50 PPM		Oral: 1900 mg/kg (rat)	Inhalation LCLO		
							Dermal: 1.0 g/kg (rabbit)	4 hrs: 2,000 PPM (rat)		

All of the constituents of Weld-On 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.

BULK SHIPPING INFOR	RMATION / 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			
		EQUIPMENT:	B - H		4 - SEVERE			
SHIPPING INFORMATION	B = Eye, Hand/Skin	Protection (No	rmal use or ap	plication & spill clean-up				
DOT Shipping Name:	Consumer Commodity	activities)						

DOT Hazard Class: ORM-D

H = Eye, Hand/Skin and Respiratory Protection plus Impermeable Apron

(When risk of immersion and/or splashing is present)

SECTION III - PHYSICAL DATA

APPEARANCE	ODOR	BOILING POINT (°F/°C) FREEZING POINT
793 - Clear, medium syrupy liquid; 794 - Green, medium	Ethereal (Threshold = 2-50 PPM)	67°C (151°F) -108.5°C (-163°F)
syrupy liquid; 796 - White, medium syrupy liquid		Based on THF
SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°)	VAPOR PRESSURE (mm Hg.)	PERCENT VOLATILE BY VOLUME (%)
Typical for 793: 0.910 ± 0.040 ; for 794: 0.923 ± 0.040 ;	143 mm Hg. based on first boiling	Approx: 80 - 90 %
For 796: 0.912 ± 0.040	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.
		Resin portion separates out.
COEFFICIENT OF WATER/OIL DISTRIBUTION	DU INFORMATION	

COEFFICIENT OF WATER/OIL DISTRIBUTION PH INFORMATION N. AV. N. AP.

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

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	AUTO IGNITION TEMP.	FLAMMABLE LIMITS	LEL	UEL
-4°F (-15°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 R	OUTES			<u> </u>	• • • • • • • • • • • • • • • • • • • •			
OF ENTRY:		X Inhalation	n .	Х	Skin Contact	Eye Contact	ct Ingestion	
EFFECT OF ACUTE: Inhalation: Skin Contact: Skin Absorpt Eye Contact: Ingestion: CHRONIC:	ion:	Severe overexposu Skin irritant. Liquid Prolonged or wides Overexposure may Moderately toxic. M Symptoms of respir	contact may repread exposuresult in several ay cause nau atory tract irri	remove nature may reserve eye injurusea, vomitiotation and controller	ural skin oils resulting ult in the absorption or ry with corneal or coning, diarrhea. May caudamage to respiratory	in skin irritation. Dermatitis of harmful amounts of materi juctival inflammation on con use mental sluggishness.	tact with the liquid. Vapors slightly uncomfortable. rats exposed to 5000 ppm THF for 90 days.	
REPRODUC	TIVE EFFECT	S TERATOGENION, AP.	-	AGENICITY N. AP.	/ EMBRYOTOXICI	TY SENSITIZATION TO F	PRODUCT SYNERGISTIC PRODUCTS N. AV.	
	ONDITIONS A		XPOSURE: Ir				iratory system may have increased	
EMERGENC Inhalation: Eye Contact: Skin Contact Ingestion:	<u>.</u>	physician. Flush eyes with ple Remove contamina medical attention.	ors, remove to nty of water for ted clothing a	or 15 minute and shoes.	es and call a physicia Wash skin with plent	n.	If breathing is difficult, give oxygen. Call ast 15 minutes. If irritation develops, get I center immediately.	
				SECTI	ION VI - REA	ACTIVITY		
STABILITY	UNSTABLE STABLE	X	CONDITION Keep away			nd other sources of ignition.		
INCOMPATI								
		Caustics, ammonia, SITION PRODUCTS		ds, chlorina	ted compounds, stror	ng oxidizers and isocyanates		
				e, carbon di	oxide, hydrogen chlor	ride and smoke.		
HAZARDOU POLYMERIZ		MAY OCCUR WILL NOT OCCU	Х		ONS TO AVOID by from heat, sparks, o	open flame and other source	es of ignition.	
		SEC	CTION \	/II - SP	PILL OR LEA	K PROCEDURI	ES	
Eliminate all	ignition source	•	f vapors. Kee	p liquid out	of eyes. Flush with la	arge amount of water. Conta	in liquid with sand or earth. Absorb with ing drains.	
Follow local,		eral regulations. Cor	•		n be disposed of by ir us Waste Code: 214.	ncineration. Excessive quan	ities should not be permitted to enter	
		SECT	ION VII	I - SPE	CIAL PROT	ECTION INFOR	MATION	
Atmospheric approved org short-term ex	levels should b ganic vapor car	tridge respirator with nergency and other	n full face-pied	ce is recom	mended. The effectiv	eness of an air purifying res	ions exceed those limits, use of a NIOSH pirator is limited. Use it only for a single in approved positive pressure	
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 applicate 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.							
		JIPMENT AND HYG irce of running wate			es and skin in case of	contact.	·	
			SECT	ION IX	- SPECIAL	PRECAUTIONS		
Store in the s	shade between		43.7°C). Kee	ep away fro			ignition. Avoid prolonged breathing of vapor. ures 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 thereof.	n contained herei	n is based on data cons	idered accurate	e. However, no	o warranty is expressed of	or implied regarding the accuracy	of this data or the results to be obtained from the use	