IPS

WELD-ON

MATERIAL SAFETY DATA SHEET

Revised: APR 2007 Supercedes: OCT 2004

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 2704 Low VOC PVC Plastic Pipe Cement

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	5 - 15	50 PPM	100 PPM	200 PPM	250 PPM	50 PPM	75 PPM
Methyl Ethyl Ketone (MEK)	78-93-3	20 - 40*	200 PPM	300 PPM	200 PPM	300 PPM		
Cyclohexanone	108-94-1	15 - 35	20 PPM Skin		50 PPM			
Acetone	67-64-1	5 - 15	500PPM	750 PPM	750 PPM	1000 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

(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 turnors 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 turnors in female mice and kidney turnors in male rats. No evidence of turnors was seen in female rats and male mice. There is no data linking Tetrahydrofuran exposure with cancer in humans.

BULK SHIPPING INFOR	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 (Normal solvent-welding, spill, clean-up activities)					
DOT Shipping Name:	H = Eye, Hand/Skin and Respiratory Protection plus Impermeable Apron					
DOT Hazard Class:	(splash/immersion risks present)					

SECTION III - PHYSICAL DATA

OLOTION III TITTOIOAL DATA						
APPEARANCE	ODOR	BOILING POINT (°F/°C)				
Clear, or gray, medium syrupy liquid	Ethereal	133°F (57°C) Based on first boiling component:				
		Acetone				
SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°)	VAPOR PRESSURE (mm Hg.)	PERCENT VOLATILE BY WEIGHT (%)				
Typical 0.910 ± 0.040	190 mm Hg. based on first boiling	Approx: 85 - 95%				
	component, Acetone @ 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 out.				

VOC STATEMENT: VOC as manufactured: 730 Grams/Liter (g/l). A reactive diluent per SCAQMD Rule 1168. Maximum VOC emission as applied and tested per SCAQMD Rule 1168, Test Method 316A: 510 g/l.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT		FLAMMABLE LIMITS	LEL	UEL
	-6°F (-21°C) T.C.C. Based on Acetone	(PERCENT BY VOLUME)	2.1	13.0

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.

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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.

SECTION V - HEALTH HAZARD DATA								
PRIMARY RO OF ENTRY:	DUTES	X	_Inhalation _	Х	Skin Contact	Eye Contact _	Ingestion	
EFFECT OF ACUTE:	OVEREXPOS	URE						
Inhalation:	Concentrations of 100-300 ppm cause nose and throat irritation. Higher concentrations cause irritation, headache, nausea,							ausea,
Skin Contact:							ititis.	
Eye Contact: Ingestion:		•	•		Can cause severe in omiting and diarrhea.	ury - damage reversible.		
CHRONIC:		•	•		•	MEK) alone causes progr	ressive or irreversible neurotoxi	ic effects.
	There is no evidence that exposure to Methyl Ethyl Ketone (MEK) alone causes progressive or irreversible neurotoxic effects. However, simultaneous over-exposure to MEK and n-Hexane can potentiate the known irreversible neurotoxic effects of n-Hexane. There is no reported human evidence that these neurotoxic effects occur when exposure to both chemicals is maintained below established OSHA and ACGIH limits.							
N.		TERATOGEN N. A	P.	GENICITY N. AP.	EMBRYOTOXICITY N. AP.	SENSITIZATION TO PR N. AP.	N. AV.	
			D BY EXPOSURI brotic pulmonary		, ,	an existing dermatitis. Br	eathing of vapor and/or mist ma	ay
	Y AND FIRST		<u> </u>					
Inhalation:	TANDTINOT		by vapors, remo	ve to fresh	air and if breathing s	topped, give artificial res	piration. If breathing is difficult,	give oxygen.
Eye Contact:		Flush eyes v	vith plenty of wat	er for 15 n	ninutes and call a phy	sician.		
Skin Contact:		Remove con get medical		ng and sho	oes. Wash skin with p	plenty of soap and water	for at least 15 minutes. If irritat	tion develops,
Ingestion:		Give 1 or 2 g	lasses of water	or milk. D	o not induce vomiting	. Call physician or poiso	n center immediately.	
				S	ECTION VI -	REACTIVITY		
STABILITY	UNSTABLE STABLE		X		ONS TO AVOID	onen flome and other sec	urana of ignition	
INCOMPATIE	BILITY	Counting amp		•	•	open flame and other sou strong oxidizers and isoc	-	
HAZARDOUS	S DECOMPOS	SITION PROD	DUCTS		dioxlde and hydroge		yanates.	
HAZARDOUS		MAY OCCI		ue, carbon	CONDITIONS TO			
POLYMERIZA		WILL NOT	OCCUR	X	Keep away from	heat, sparks, open flame	and other sources of ignition.	
CTEDS TO B			RIAL IS RELEAS			OR LEAK PR	ROCEDURES	
Eliminate all i	gnition source	s. Avoid brea	thing of vapors.	Keep liquid	d out of eyes. Flush w		Contain liquid with sand or earent liquid from entering drains.	arth.
Follow local,		eral regulation	ns. Consult dispo	•	•	by incineration. Excessiv	ve quantities should not be perr	nitted to
			SECTION	VIII -	SPECIAL P	ROTECTION	NFORMATION	
RESPIRATO	RY PROTECT			V 111	OI LOIAL I	KOTEOTION I	III ORIMATION	
Atmospheric levels should be maintained below established exposure limits contained in Section II. If airborne concentrations exceed those limits, use of a NIOSH approved organic vapor cartridge respirator with full face-piece is recommended. The effectiveness of an air purifying respirator is limited. Use it only for a single short-term exposure. For emergency and other conditions where short-term exposure guidelines may be exceeded, use an approved positive pressure self-contained breathing apparatus.								
VENTILATION Use only with adequate ventilation. Do not use in close quarters or confined spaces. Open doors and/or windows to ensure 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.								
PROTECTIVE GLOVES PVA coated rubber gloves for frequent dipping/immersion. Use of latex/nitrile surgical gloves or solvent resistant barrier cream should provide adequate protection when normal solvent-cement welding practices and procedures are used for solvent welding of plastic sheet/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.								
				S	ECTION IX -	SPECIAL PR	ECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in the shade between 40°F - 110°F (5°C - 44°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 contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.							

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