# IPS

WELD-ON

## **MATERIAL SAFETY DATA SHEET**

Date Revised: APR 2008 Supersedes: FEB 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**

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 Plastic Pipe

Mixture of Synthetic Resin and Organic Solvents

TRADE NAME:

WELD-ON 790 Multi-Purpose Cement for Plastic Pipe

FORMULA: Proprietary

## **SECTION II - HAZARDOUS INGREDIENTS**

None of the ingredients below are listed as

carcinogens by IARC, NTP or OSHA	CAS#	APPROX %	ACGIH-TLV	ACGIH-STEL	OSHA-PEL	OSHA-STEL
Chlorinated Polyvinyl Chloride Resin (CPVC)	NON/HAZ		N/A		N/A	
Tetrahydrofuran (THF)**	109-99-9	40 - 55	50 PPM# Skin	100 PPM	200 PPM	250 PPM
Methyl Ethyl Ketone (MEK)	78-93-3	25 - 45*	200 PPM	300 PPM	200 PPM	300 PPM
Cyclohexanone	108-94-1	2 - 10	20 PPM Skin		50 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 such 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.
- # Invista and BASF mfg's Acceptable Exposure Limit (AEL) guidelines for 8 hour and 12 hour TWA, Invista/BASF recommended STEL for 15 minute TWA: 75PPM.
- \*\*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 INFORM	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 (for normal solvent-welding, small spill, clean-up activities)				
DOT Shipping Name:	H = Eye, Hand/Skin, Respiratory Protection and Impermeable Apron (splash/				
DOT Hazard Class:	ORM-D	immersion risks)			

SECTION III - PHYSICAL DATA					
APPEARANCE	ODOR	BOILING POINT (°F/°C)			
Clear, medium 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 0.940 ± 0.040	143 mm Hg. based on first boiling	Approx: 80 - 90%			
	component, THF @ 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 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	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.

SECTION V - HEALTH HAZARD DATA						
PRIMARY ROUTES						
OF ENTRY:	X	Inhalation _	Х	Skin Contact	Eye Contact	Ingestion
EFFECT OF OVEREXPOSURE ACUTE:						
Inhalation: Skin Contact:						ess, irritation of eyes and nasal passages. matitis may occur with prolonged contact.
Skin Absorption:		•	•	result in the absorption o		, , ,
Eve Contact:	-		-	•		on contact with the liquid. Vapors slightly uncomfortable.
Ingestion:	Moderately to	xic. May cause	nausea, vo	omiting, diarrhea. May cau	use mental sluggishn	ess.
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.					
REPRODUCT N. A		TERATOGENICIT N. AP.		GENICITY EMBRYOTOXIC	ITY SENSITIZATION N. AP	TO PRODUCT SYNERGISTIC PRODUCTS N. AV.
	GGRAVATED	BY EXPOSURE				or respiratory system may have increased
EMERGENCY AND FIRST Inhalation:			ve to fresh	air and if breathing stopp	ed, give artificial resp	iration. If breathing is difficult, give oxygen. Call
Eye Contact: Skin Contact:	Flush eyes w Remove cont	aminated clothir		inutes and call a physicia es. Wash skin with plent		or at least 15 minutes. If irritation develops, get
Ingestion:	medical atten Give 1 or 2 gl		or milk. Do	o not induce vomiting. Ca	II physician or poisor	control center immediately.
		,	SECTI	ON VI - REAC	TIVITY	
STABILITY UNSTABLE				ONS TO AVOID		
STABLE   INCOMPATIBILITY		X	Keep awa	y from heat, sparks, oper	flame and other sou	rces of ignition.
(MATERIALS TO AVOID) HAZARDOUS DECOMPO	SITION PRODI	JCTS		·		anates.
When forced to burn, this p			ide, carbo			
HAZARDOUS POLYMERIZATION	WILL NOT		X	CONDITIONS TO A		and other sources of ignition.
T OLTMETHE/THOM				SPILL OR LE		-
STEPS TO BE TAKEN IN					AITTIOOL	DOTTES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  Eliminate all ignition sources. Avoid breathing of vapors. Keep liquid out of eyes. Flush with large amount of water. Contain liquid with sand or earth. Absorb with sand or nonflammable absorbent material and transfer into steel drums for recovery or disposal. Prevent liquid from entering drains.						
WASTE DISPOSAL METHOD Follow local, State and Federal regulations. Consult disposal expert. Can be disposed of by incineration. Excessive quantities should not be permitted to enter drains. Empty containers should be air dried before disposing. Hazardous Waste Code (CA): 214.						
SECTION VIII - SPECIAL PROTECTION INFORMATION						
RESPIRATORY PROTEC			·	I LOIAL I IIO	· LOTION III	OTIMATION
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. 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.						
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 making plastic welded pipe joints.  EYE PROTECTION Splashproof chemical goggles, face shields, safety glasses (spectacles) with brow guards and side shields, etc. as appropriate for						
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 - 90°F (5°C - 32.5°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.						
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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