

Information on this form is furnished solely for the purpose of compliance with the U.S. Occupational Safety and Health Act, the Canadian Hazardous Products Act and Controlled Products Regulations and shall not be used for any other purpose. IPS Corporation urges the customers receiving this 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 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 2795 Low VOC Cement for Flex PVC Plastic Pipe

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

None of the ingredients below are listed as carcinogens by IARC, NTP, OSHA or ACGIH.	CAS#	APPROX % BY WEIGHT	ACGIH TLV	ACGIH STEL	OSHA TLV	OSHA STEL	LD50	LC50
Chlorinated Polyvinyl Chloride Resin (PVC)	NON-HAZ		N. AP.		N. AP.		N. AP.	N. AP.
Tetrahydrofuran (THF)	109-99-9	35 - 45	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	5 - 15	200 PPM	300 PPM	200 PPM	300 PPM	Oral: 3.98 g/kg (rat) Dermal: 8-10 mg/kg (rabbit)	Inhalation 4 hrs. 4,000 PPM (rat)
Cyclohexanone	108-94-1	5 - 15	20 PPM Skin		50 PPM		Oral: 1900 mg/kg (rat) Dermal: 1.0 g/kg (rabbit)	Inhalation LCLO, 4 hrs: 2000 PPM rat
Acetone	67-64-1	5 - 15	500 PPM	750 PPM	750 PPM	1000 PPM	Oral: 9.75 g/kg (rat) Dermal: 20 g/kg (rabbit)	Inhalation LCLO 4 hrs: 16,000 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.

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.

DOT, IATA, IMO/IMDG SHIPPING INFORMATION			SPECIAL HAZARD DESIGNATIONS		
Proper Shipping Name:	Adhesives	EXCEPTION: Case quantities of cement in containers of less than one liter may be shipped as LIMITED QUANTITY or CONSUMER COMMODITY, ORM-D	HMIS	NFPA	HAZARD RATING
Hazard Class:	3		HEALTH: 2	2	0 - MINIMAL
Identification Number:	UN 1133		FLAMMABILITY: 3	3	1 - SLIGHT
Packing Group:	II		REACTIVITY: 0	1	2 - MODERATE
Label Required:	Flammable Liquid		PROTECTIVE EQUIPMENT: B - H		3 - SERIOUS 4 - SEVERE
TDG INFORMATION			B = Eye, Hand/Skin Protection (Normal use or application & spill clean-up activities)		
TDG CLASS:	FLAMMABLE LIQUID 3		H = Eye, Hand/Skin and Respiratory Protection plus Impermeable Apron (When risk of immersion and/or splashing is present)		
SHIPPING NAME:	ADHESIVES (TETRAHYDROFURAN)				
UN NUMBER:	1133, PG II				
WHMIS CLASSIFICATION: CONTROLLED PRODUCT					
CLASS B, DIVISION 2					
CLASS D, DIVISION 2B					

SECTION III - PHYSICAL DATA

APPEARANCE Green, blue opr clear, medium syrupy liquid	ODOR Ethereal (Threshold = 2-50 PPM)	BOILING POINT (°F/°C) 151 °F (67°C)	FREEZING POINT -163 °F (-108.5 °C)
SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°) Typical 0.930 ± 0.040	VAPOR PRESSURE (mm Hg.) 143 mm Hg. based on first boiling component, THF @ 68 °F (20 °C)	PERCENT VOLATILE BY VOLUME (%) Approx: 60 - 75 %	
VAPOR DENSITY (Air = 1) 2.49	EVAPORATION RATE (BUAC = 1) > 1.0	SOLUBILITY IN WATER Solvent portion completely soluble in water. Resin portion separates out.	
COEFFICIENT OF WATER/OIL DISTRIBUTION N. AV.	PH INFORMATION N. AP.	VOC STATEMENT Maximum VOC emissions as applied and tested per SCAQMD Rule 1168, Test Method 316A: 510 grams/liter. After drying and curing there are negligible or no emissions.	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT -4 °F (-20 °C) T.C.C. Based on THF	AUTO IGNITION TEMP. 609.8 °F (321 °C), THF	FLAMMABLE LIMITS (PERCENT BY VOLUME)	LEL 2.0	UEL 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 Full protective equipment, including self-contained breathing apparatus, is recommended. Cool containers of material exposed to heat with cold water spray. Use of water fog by trained personnel can extinguish small/large fires and avoid water flow or water streams distributing burning material or contaminated water over a large area or into sewers or storm drains. Fight fires from a safe distance or protected area.				
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.				
Hazardous Combustion Products When forced to burn, this product gives out carbon monoxide, carbon dioxide, hydrogen chloride and smoke.				

SECTION V - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Keep away from heat, sparks, open flame and other sources of ignition.
INCOMPATIBILITY (MATERIALS TO AVOID) Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.			
HAZARDOUS DECOMPOSITION PRODUCTS When forced to burn, this product gives out carbon monoxide, carbon dioxide, hydrogen chloride and smoke.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	Keep away from heat, sparks, open flame and other sources of ignition.

SECTION VI - HEALTH HAZARD DATA & TOXICOLOGICAL PROPERTIES

PRIMARY ROUTES OF ENTRY:	<input checked="" type="checkbox"/> Inhalation	<input checked="" type="checkbox"/> Skin Contact	<input type="checkbox"/> Eye Contact	<input type="checkbox"/> Ingestion	
TOXIC EXPOSURE VALUE Refer to table in Section II for Lethal Dose and Lethal Concentration exposure values					
EFFECT OF OVEREXPOSURE					
ACUTE:					
<u>Inhalation:</u> Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.					
<u>Skin Contact:</u> Skin irritant. Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.					
<u>Skin Absorption:</u> Prolonged or widespread exposure may result in the absorption of harmful amounts of material.					
<u>Eye Contact:</u> Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid. Vapors slightly uncomfortable.					
<u>Ingestion:</u> Moderately toxic. May cause nausea, vomiting, diarrhea. May cause mental sluggishness.					
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.					
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing diseases of the eyes, skin or respiratory system may have increased susceptibility to the toxicity of excessive exposures.					
REPRODUCTIVE EFFECTS	TERATOGENICITY	MUTAGENICITY	EMBRYOTOXICITY	SENSITIZATION TO PRODUCT	SYNERGISTIC PRODUCTS
N. AP.	N. AP.	N. AP.	N. AP.	N. AP.	N. AV.

SECTION VII - PREVENTIVE MEASURES

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. CA Hazardous Waste Code: 214.	
RESPIRATORY PROTECTION (Specify type) Atmospheric exposure levels in employees' breathing zone 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 air line or 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 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 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.	
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.	
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.	

SECTION VIII - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES	
Inhalation:	If overcome by vapors, remove to fresh air and if breathing stopped, give artificial respiration. If breathing is difficult, give oxygen. Call physician.
Eye Contact:	Flush eyes with plenty of water for 15 minutes and call a physician.
Skin Contact:	Remove contaminated clothing and shoes. Wash skin with plenty of soap and water for at least 15 minutes. If irritation develops, get medical attention.
Ingestion:	Give 1 or 2 glasses of water or milk. Do not induce vomiting. Call physician or poison control center immediately.

SECTION IX - SDS PREPARATION INFORMATION

Prepared by: IPS Safety, Health & Environmental Affairs Department	Telephone number: (310) 898-3300	e-mail address <EHS@ipscorp.com>
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