

IPS WELD-ON		MATERIAL SAFETY DATA SHEET		Date Revised: MAR 2008 Supersedes: NOV 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.						
<b>SECTION I</b>						
<b>MANUFACTURER'S NAME</b> IPS Corporation <b>ADDRESS</b> 17109 S. Main St., P.O. Box 379, Gardena, CA 90248			<b>Transportation Emergencies:</b> CHEMTREC: (800) 424-9300 <b>Medical Emergencies:</b> 3 E COMPANY (24 Hour No.) (800) 451-8346 <b>Business: (310) 898-3300</b>			
<b>CHEMICAL NAME and FAMILY</b> Mixture of Petroleum Hydrocarbon Fraction and Chlorinated Hydrocarbon Solvent-Cement for Non-Pressurized Plastic Pipe Applications			<b>TRADE NAME:</b> WELD-ON 600 <b>FORMULA:</b> Proprietary			
<b>SECTION II - HAZARDOUS INGREDIENTS</b>						
One of the ingredients listed below is listed as a carcinogen (±) by the IARC and/or NTP						
	<b>CAS#</b>	<b>APPROX %</b>	<b>ACGIH-TLV</b>	<b>ACGIH-STEL</b>	<b>OSHA-PEL</b>	<b>OSHA-STEL</b>
Synthetic Resin	NON/HAZ		N/A		N/A	
Hexasol ingredient, Hexane	110-54-3	12 - 25*	50 PPM		50 PPM	
Methylene Chloride (±)	75-09-2	25 - 40*	50 PPM		25 PPM	125 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.						
*SARA 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.						
<b>PROPOSITION 65 NOTICE</b>						
This product contains chemicals known to the state of California to cause cancer and/or reproductive harm.						
This material is an aspiration hazard and defats the skin. The ingredients are toxic by inhalation and ingestion and may be absorbed through the skin. Exposure by these routes may cause central nervous system depression, liver and kidney damage and may sensitize the heart muscle. Methylene Chloride may interfere with the oxygen carrying capacity of the blood. Methylene Chloride is a possible human cancer hazard based on test results with laboratory animals. Methylene Chloride has been listed as a potential carcinogen by IARC and NTP. Methylene Chloride is not believed to pose a measureable risk to man when handled as recommended. Benzene, a minor trace component of Textile Spirits, is known to be a carcinogen and may cause reproductive harm. Precautions should be taken to avoid unnecessary exposure to this cement.						
<b>BULK SHIPPING INFORMATION / CONTAINERS LARGER THAN ONE LITER</b>			<b>SPECIAL HAZARD DESIGNATIONS</b>			
DOT Shipping Name:	Flammable liquid, toxic, n.o.s. (Hexane, Dichloromethane)		<b>HMIS</b>	<b>NFPA</b>	<b>HAZARD RATING</b>	
DOT Hazard Class:	3; Subsidiary Risk: 6.1		HEALTH:	3	1	0 - MINIMAL
Identification Number:	UN 1992		FLAMMABILITY:	3	3	1 - SLIGHT
Packaging Group:	II		REACTIVITY:	0	0	2 - MODERATE
Label Required:	Flammable Liquid & Toxic (Domestic & International)		PROTECTIVE			3 - SERIOUS
			EQUIPMENT:	B - H		4 - SEVERE
<b>SHIPPING INFORMATION FOR CONTAINERS LESS THAN ONE GALLON</b>			B = Eye, Hand/Skin (for normal solvent-welding, small spill, clean-up activities)			
DOT Shipping Name:	Consumer Commodity		H = Eye, Hand/Skin, Respiratory Protection and Impermeable Apron (splash/immersion risks)			
DOT Hazard Class:	ORM-D		(49CFR 173.150)			
<b>SECTION III - PHYSICAL DATA</b>						
<b>APPEARANCE</b> Syrupy liquid with light amber color	<b>ODOR</b> Characteristic odor of chlorinated solvents		<b>BOILING POINT (°F/°C)</b> 104°F (40°C) Based on first boiling component: Methylene Chloride			
<b>SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°)</b> Typical 0.896 ± 0.040	<b>VAPOR PRESSURE (mm Hg.)</b> 355 mm Hg. based on first boiling component Methylene Chloride @ 68°F (20°C)		<b>PERCENT VOLATILE BY VOLUME (%)</b> Approximately 60 - 70%			
<b>VAPOR DENSITY (Air = 1)</b> 2.93 based on Methylene Chloride	<b>EVAPORATION RATE (BUAC = 1)</b> Approx. 14.5 based on Methylene Chloride		<b>SOLUBILITY IN WATER</b> Solvent slightly miscible. Resin precipitates.			
VOC STATEMENT: Maximum VOC emission per SCAQMD Test Method 316A: 300 Grams/Liter.						
<b>SECTION IV - FIRE AND EXPLOSION HAZARD DATA</b>						
<b>FLASH POINT</b> -16°F (-26°C) based on Hexane	<b>FLAMMABLE LIMITS</b> (Percent by Volume)		<b>LEL</b>	<b>UEL</b>		
			1	7		
<b>FIRE EXTINGUISHING MEDIA</b> Ansul "Purple K" potassium bicarbonate dry chemical, carbon dioxide, National Aero-O-Foam universal alcohol resistant foam, water spray.						
<b>SPECIAL FIRE FIGHTING PROCEDURES</b> Evacuate enclosed areas. Stay upwind. Close or confined areas require self-contained breathing apparatus; positive pressure masks or airline masks. Use water spray to cool containers, to flush spills from source of ignition and to disperse vapors. Do not allow contaminated water to flow into sewers or storm drains.						
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b> Avoid hot surfaces and other sources of ignition. Vapors are heavier than air and may travel to source(s) of ignition at or near floor or lower level and flash back.						
Sheet 1 of 2						
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## SECTION V - HEALTH HAZARD DATA

### PRIMARY ROUTES

OF ENTRY:                        X     Inhalation                        X     Skin Contact                               Eye Contact                               Ingestion

### EFFECT OF OVEREXPOSURE

#### ACUTE:

Inhalation: Exposure to vapors may result in nausea, drowsiness, dizziness, headache, fatigue, other CNS effects and heart arrhythmias (irregular heart beats). Can cause irritation of eyes and nasal passages. Exposure to high concentrations may impair blood's ability to transport oxygen. Prolonged or repeated exposure to vapors may cause liver and kidney damage.

Skin Contact: Repeated or prolonged contact may result in defatting of skin, irritation, contact dermatitis, rash, itching, swelling. May be absorbed through skin.

Eye Contact: Direct exposure may result in irritation with corneal or conjunctival inflammation if not removed promptly. Vapors may irritate eyes.

Ingestion: Moderately toxic. Irritant to digestive tract, may induce signs of central nervous system depression. Do not induce vomiting and obtain prompt medical attention.

#### CHRONIC:

Inhalation ‡ This material is an aspiration hazard and defats the skin. The ingredients are toxic by inhalation and ingestion and may be absorbed through the skin. Exposure by these routes may cause central nervous system depression, liver and kidney damage and may sensitize the heart muscle. Methylene Chloride may interfere with the oxygen carrying capacity of the blood. Methylene Chloride is a possible human cancer hazard based on test results with laboratory animals. Methylene Chloride has been listed as a potential carcinogen by IARC and NTP. Methylene Chloride is not believed to pose a measurable risk to man when handled as recommended. Precautions should be taken to avoid unnecessary exposure to this cement

Ingestion Ingestion of alcohol may increase the potential for development of toxic effects or reactions resulting from Methylene Chloride exposure.

REPRODUCTIVE EFFECTS    TERATOGENICITY    MUTAGENICITY    EMBRYOTOXICITY    SENSITIZATION TO PRODUCT    SYNERGISTIC PRODUCTS

N. AP.                    POSS.                    N. AP.                    POSS.                    N. AP.                    N. AV.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: This material may aggravate an existing dermatitis. Individuals with pre-existing diseases of the heart, liver or kidney may have increased susceptibility to the toxicity of excessive exposures.

EMERGENCY AND FIRST AID PROCEDURES    NOTE TO PHYSICIAN: Do not administer sympathomimetic drugs unless absolutely necessary.

Inhalation: Remove patient to fresh air and if breathing stopped, give artificial respiration. If breathing is difficult, give oxygen. Contact physician immediately.

Eye Contact: Immediately flush eyes with flowing water for 15 minutes and contact a physician.

Skin Contact: Wash skin with soap and water. Remove contaminated clothing and shoes. Launder clothing before reuse. 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 VI - REACTIVITY

STABILITY	UNSTABLE		CONDITIONS TO AVOID: Stable under normal conditions of storage and handling. Avoid contact or exposure to fire, heat, sparks, electric arcs, open flame and hot surfaces which can cause thermal decomposition.
	STABLE	X	

### INCOMPATIBILITY

(MATERIALS TO AVOID) Strong alkalis, oxygen, nitrogen, peroxide, potassium and reactive metals.

### HAZARDOUS DECOMPOSITION PRODUCTS

This product gives out carbon monoxide (CO), carbon dioxide (CO<sup>2</sup>), Phosgene gas and smoke upon combustion or contact with reactive metals.

HAZARDOUS	MAY OCCUR		CONDITIONS TO AVOID Keep away from heat, sparks, open flame and other sources of ignition.
POLYMERIZATION	WILL NOT OCCUR	X	

## SECTION VII - SPILL OR LEAK PROCEDURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Evacuate area, ventilate and avoid breathing vapors. Dike area to contain spill. Clean up area (wear protective equipment) by mopping or with absorbent material and place in closed containers for disposal. Avoid contamination of ground and surface waters. Do not flush to sewer. If spill occurs indoors, turn off heating and/or air conditioning systems to prevent vapors from contaminating entire building.

### WASTE DISPOSAL METHOD

Recovered liquids may be sent to a licensed reclaimer or incineration facility. Contaminated material must be disposed of in a permitted solid waste management facility. Follow local, State and Federal regulations. Material should not be allowed to drain into domestic sewer or storm drains. Consult disposal expert.

## 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 positive-pressure, full-facepiece SCBA or positive-pressure, full-facepiece supplied air respirator (with an auxiliary positive pressure SCBA) is recommended. Even for emergency and other conditions where short term exposure guidelines may/may not be exceeded, use of an approved positive pressure self-contained breathing apparatus (SCBA) is recommended.

### 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 25 ppm TWA. Use only explosion-proof ventilation equipment. Monitoring should be performed to determine exposure level(s) IAW (in accordance with) 29 CFR 1910.1052.

PROTECTIVE GLOVES	PVA coated or Latex-Nitrile rubber. Surgical gloves or solvent resistant barrier creme should provide adequate protection in normal usage.	EYE PROTECTION	Splashproof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as appropriate for exposure.
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### 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. Close container after each use. 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.