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<b>IPS</b> WELD-ON	<b>MATERIAL SAFETY DATA SHEET</b>			Date Revised: OCT 2004 Supersedes: DEC 2003
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> 600 Ellis road, Durham, NC 27703		<b>Transportation Emergencies:</b> CHEMTREC: (800) 424-9300 <b>Medical Emergencies:</b> 3 E COMPANY (24 Hour No.) (800) 451-8346 Business: (919) 598-2400		
<b>CHEMICAL NAME and FAMILY</b> Acrylic Reactive Adhesive Mixture of Polymeric Resins and Methyl Methacrylate Monomer		<b>TRADE NAME;</b> WELD-ON STRUCTURAL SERIES -- SS 230 SS 230 - Component A <b>FORMULA:</b> Proprietary		
<b>SECTION II - HAZARDOUS INGREDIENTS</b>				
None of the ingredients below are listed as carcinogens by IARC, NTP or OSHA				
	<b>CAS#</b>	<b>APPROX %</b>	<b>ACGIH-TLV</b>	<b>ACGIH-STEL</b>
	<b>OSHA-PEL</b>	<b>OSHA-STEL</b>		
Synthetic Polymer Resin	NON/HAZ		N/A	N/A
Methyl Methacrylate Monomer, Stabilized	80-62-6	50 - 75*	100 PPM	100 PPM
Methacrylic Acid	79-41-4	1 - 8	20 PPM (Skin)	N/E
			N/E	N/E
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.				
*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>BULK SHIPPING INFORMATION / CONTAINERS LARGER THAN ONE LITER</b>		<b>SPECIAL HAZARD DESIGNATIONS</b>		
DOT Shipping Name:	Adhesive	<b>HMIS</b>	<b>NFPA</b>	<b>HAZARD RATING</b>
DOT Hazard Class:	3	<b>HEALTH:</b>	2	2
Identification Number:	UN 1133	<b>FLAMMABILITY:</b>	3	3
Packaging Group:	II	<b>REACTIVITY:</b>	1	1
Label Required:	Flammable Liquid	<b>PROTECTIVE EQUIPMENT:</b>	B - H	4 - SEVERE
<b>SHIPPING INFORMATION FOR CONTAINERS LESS THAN ONE LITER</b>		B = Eye, Hand/Skin Protection (Normal use or application & spill clean-up activities) H = Eye, Hand/Skin and Respiratory Protection plus Impermeable Apron (When risk of immersion and/or splashing is present)		
DOT Shipping Name:	Consumer Commodity			
DOT Hazard Class:	ORM-D			
<b>SECTION III - PHYSICAL DATA</b>				
<b>APPEARANCE</b> Off-White, viscous liquid or paste	<b>ODOR</b> Distinct Strong Odor	<b>BOILING POINT (°F/°C)</b> 214°F (102°C) Based on Methyl Methacrylate Monomer		
<b>SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°)</b> Typical 0.960 ± 0.040	<b>VAPOR PRESSURE (mm Hg.)</b> 29 mm Hg. @ 68°F (20°C) based on Methyl Methacrylate Monomer	<b>PERCENT VOLATILE BY VOLUME (%)</b> Approx: 50 -75 %; Volatile content is a reactive diluent. Evaporation is minimal in normal use.		
<b>VAPOR DENSITY (Air = 1)</b> 3.46 based on Monomer	<b>EVAPORATION RATE (BUAC = 1)</b> < 1	<b>SOLUBILITY IN WATER</b> Slight		
<b>SECTION IV - FIRE AND EXPLOSION HAZARD DATA</b>				
<b>FLASH POINT</b> 51°F (10.6°C) T.C.C. based on Monomer	<b>FLAMMABLE LIMITS</b> (Percent by Volume)		<b>LEL</b>	<b>UEL</b>
			2.1	12.5
<b>FIRE EXTINGUISHING MEDIA</b> Foam, carbon dioxide, dry chemical, water fog (by trained personnel).				
<b>SPECIAL FIRE FIGHTING PROCEDURES</b> 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.				
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b> Sealed containers exposed to elevated temperatures may rupture due to polymerization or vapor expansion. Vapors are heavier than air and may travel to source(s) of ignition at or near floor or lower level(s) and flash back. Susceptible to spontaneous heating. Considered a fire hazard because of low flash point.				

## SECTION V - HEALTH HAZARD DATA

### PRIMARY ROUTES

OF ENTRY:             Inhalation     Skin Contact     Eye Contact     Ingestion

### EFFECT OF OVEREXPOSURE

#### ACUTE:

Inhalation:            Exposure may result in nausea, drowsiness, dizziness, headache and other CNS effects. Can cause irritation of eyes and nasal passages.  
Skin Contact:        Skin irritant. Potential skin sensitizer. Repeated or prolonged contact may result in skin irritation, contact dermatitis, rash, itching, swelling.  
Eye Contact:        Direct exposure may result in irritation with corneal or conjunctival inflammation.  
Ingestion:            Moderately toxic. Do not induce vomiting. Obtain prompt medical attention.

#### CHRONIC: (LABORATORY ANIMALS)

Inhalation            Toxicity described in animals exposed by inhalation include inflammation of the nasal cavity and changes in nasal sensory cells and slight decrease in body weight.  
Ingestion            Toxicity described in animals exposed by ingestion include decreased body weight and increased relative kidney weight at high dose levels.

REPRODUCTIVE EFFECTS	TERATOGENICITY	MUTAGENICITY	EMBRYOTOXICITY	SENSITIZATION TO PRODUCT	SYNERGISTIC PRODUCTS
N. AP.	N. AP.	N. AP.	N. AP.	N. AP.	N. AV.

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

### EMERGENCY AND FIRST AID PROCEDURES

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 water for 15 minutes and contact a physician.  
Skin Contact:        Wash skin with 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 VI - REACTIVITY

STABILITY	<input type="checkbox"/> UNSTABLE		CONDITIONS TO AVOID:        Exposure to fire, heat, sparks, open flame and other sources of ignition, direct sunlight or contact with oxidizing materials.
	<input checked="" type="checkbox"/> STABLE	<input checked="" type="checkbox"/>	

INCOMPATIBILITY  
(MATERIALS TO AVOID) Reducing and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS  
Oxides of carbon, oxides of nitrogen, hydrogen cyanide, hydrocarbons, dense smoke and gases upon combustion.

HAZARDOUS	<input type="checkbox"/> MAY OCCUR		CONDITIONS TO AVOID
POLYMERIZATION	<input checked="" type="checkbox"/> WILL NOT OCCUR	<input checked="" type="checkbox"/>	Keep away from heat, sparks, open flame and other sources of ignition.

## SECTION VII - SPILL OR LEAK PROCEDURES

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

Eliminate all ignition sources. Avoid exposure of personnel to toxic concentration of vapor and guard against accidental fire and explosion. Contain liquid with sand, earth 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. 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 organic vapor cartridge respirator 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 with adequate ventilation (approximately ten (10) or more air changes per hour). Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits set forth in Section II. Open doors and/or windows usually ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone. If mechanical ventilation is necessary, 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 adhesive bonding practices and procedures for small quantity mixing, application or spill clean-up are used.

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.

## SECTION IX - SPECIAL PRECAUTIONS

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a cool dark place below 70°F (21°C). Keep away from all sources of heat, sparks, open flame and other sources of ignition. Close container after each use. Ground containers when pouring. Use with adequate ventilation. Train employees on all special handling procedures before they work with this product.

### OTHER PRECAUTIONS

Follow all precautionary information given on container labels and product bulletins, etc. 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.