

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
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CHEMICAL NAME and FAMILY Acrylic Reactive Cement Mixture of Acrylic Resin and Methyl Methacrylate Monomer	TRADE NAME: WELD-ON 28 Very High Strength Acrylic Cement (3-Component Kit) FORMULA: Proprietary
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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
<i>Component "A" (Base Resin)</i> 93% of mixture						
Acrylic Resin	NON/HAZ		N/A		N/A	
Methyl Methacrylate Monomer	80-62-6	41 - 55*	100 PPM		100 PPM	
<i>Component "B" (Catalyst)</i> 2% of mixture						
Organic Peroxide	94-36-0	39 - 57*	5 mg/m ³		5 mg/m ³	
<i>Component "C" (Promoter)</i> 5% of mixture						
Methyl Methacrylate Monomer	80-62-6	81 - 94*	100 PPM		100 PPM	
N,N, Dimethylaniline	121-69-7	9 - 19*	5 PPM Skin	10 PPM	5 PPM Skin	10 PPM

All of the constituents of Weld-On adhesive products are either exempt from or are listed on the TSCA inventory of chemical substances maintained by the US EPA.

Under some circumstances, mutagenic changes have been observed with Methyl Methacrylate in animal studies. Precautions should be taken to avoid unnecessary exposures to this cement.

*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.

BULK SHIPPING INFORMATION / CONTAINERS LARGER THAN ONE LITER DOT Shipping Name: Adhesive DOT Hazard Class: 3 Identification Number: UN 1133 Packaging Group: II Label Required: Flammable Liquid NOTE: When "B" component is shipped separately, not as part of the kit, DOT Shipping Name is Organic Peroxide, Type D, Solid, DOT Hazard Class is 5.2, ID Number is UN 3106, and Label Required is Organic Peroxide	SPECIAL HAZARD DESIGNATIONS <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>HMIS</th> <th>NFPA</th> <th>HAZARD RATING</th> </tr> </thead> <tbody> <tr> <td>HEALTH:</td> <td>"A","B"&"C" 2</td> <td>"A","B"&"C" 2</td> <td>0 - MINIMAL</td> </tr> <tr> <td>FLAMMABILITY:</td> <td>"A","B"&"C" 3</td> <td>"A"&"C" 3, "B" 1</td> <td>1 - SLIGHT</td> </tr> <tr> <td>REACTIVITY:</td> <td>"A"&"C" 1, "B" 2</td> <td>"A","B"&"C" 1</td> <td>2 - MODERATE</td> </tr> <tr> <td>PROTECTIVE EQUIPMENT:</td> <td>B - H</td> <td></td> <td>3 - SERIOUS 4 - SEVERE</td> </tr> </tbody> </table> <p>B = Eye, Hand/Skin (for normal mixing, application, small spill, clean-up activities) H = Eye, Hand/Skin, Respiratory Protection and Impermeable Apron (when splash/immersion risks are present)</p>		HMIS	NFPA	HAZARD RATING	HEALTH:	"A","B"&"C" 2	"A","B"&"C" 2	0 - MINIMAL	FLAMMABILITY:	"A","B"&"C" 3	"A"&"C" 3, "B" 1	1 - SLIGHT	REACTIVITY:	"A"&"C" 1, "B" 2	"A","B"&"C" 1	2 - MODERATE	PROTECTIVE EQUIPMENT:	B - H		3 - SERIOUS 4 - SEVERE
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SHIPPING INFORMATION FOR CONTAINERS LESS THAN ONE LITER DOT Shipping Name: Consumer Commodity DOT Hazard Class: ORM-D	
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SECTION III - PHYSICAL DATA

APPEARANCE Clear, thin liquid - "A" & "C" White granules - "B"	ODOR Distinct Odor - "A"; Slight odor - "B"; Pungent odor - "C"	BOILING POINT (°F/°C) 214 °F (101 °C) based on Monomer - "A" & "C"; N/A - "B"
SPECIFIC GRAVITY @ 73 °F ± 3.6 ° (23 °C ± 2 °) Typical 1.03 ± 0.040 - "A"; 0.570 ± 0.040 - "B"; 0.939 ± 0.040 - "C"	VAPOR PRESSURE (mm Hg.) 29 mm Hg. @ 68 °F (20 °C) / Monomer - "A" & "C" N/A - "B"	PERCENT VOLATILE BY VOLUME (%) Approx: 50 - 65% - "A"; N/A - "B"; 100% - "C"
VAPOR DENSITY (Air = 1) 3.46 based on Monomer - "A" & "C"; N/A - "B"	EVAPORATION RATE (BUAC = 1) Approx. 3 - "A" & "C"; N/A - "B"	SOLUBILITY IN WATER 1.6, Based on Monomer - "A" & "C" Insoluble - "B"

VOC STATEMENT: Reactive diluent. Maximum VOC 0 Grams/Liter (when components mixed). Meets SCAQMD Rule 1168 VOC emission limits for Plastic Cement Welding.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT 51 °F (11 °C) T.C.C. - "A" & "C"; N/A - "B"	FLAMMABLE LIMITS (Percent by Volume)	LEL 2.1	UEL 12.5
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FIRE EXTINGUISHING MEDIA
 Appropriately sized ABC dry chemical, carbon dioxide, or foam extinguishers can be used. Use of a water fog by trained personnel can avoid large amounts of water or water streams distributing the burning material over a large area, into sewers or storm drains.

SPECIAL FIRE FIGHTING PROCEDURES
 Full protective equipment, including self-contained breathing apparatus, is recommended. Cool containers of material (especially component B) exposed to heat or flames with cold water spray. For large fires, evacuate the area and fight fires from a safe distance or protected area.

UNUSUAL FIRE AND EXPLOSION HAZARDS
 Sealed containers exposed to elevated temperatures may rupture explosively due to polymerization. Vapors are heavier than air and may travel to source(s) of ignition at or near ground 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

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PRIMARY ROUTES OF ENTRY: <u> X </u> Inhalation <u> X </u> Skin Contact <u> </u> Eye Contact <u> </u> Ingestion							
EFFECT OF OVEREXPOSURE							
ACUTE:							
<u>Inhalation:</u>		Exposure may result in nausea, drowsiness, dizziness, headache and other CNS effects. Can cause irritation of eyes and nasal passages.					
<u>Skin Contact:</u>		Skin irritant. Potential skin sensitizer. Repeated or prolonged contact may result in skin irritation, contact dermatitis, rash, itching, swelling.					
<u>Eye Contact:</u>		Direct exposure may result in irritation with corneal or conjunctival inflammation.					
<u>Ingestion:</u>		Moderately toxic. Do not induce vomiting and obtain prompt medical attention.					
CHRONIC:							
<u>Inhalation</u>		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.					
<u>Ingestion</u>		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.	POSS.	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							
<u>Inhalation:</u>		Remove patient to fresh air and if breathing stopped, give artificial respiration. If breathing is difficult, give oxygen. Contact physician immediately.					
<u>Eye Contact:</u>		Immediately flush eyes with water for 15 minutes and contact a physician.					
<u>Skin Contact:</u>		Wash skin with soap and water for at least 15 minutes. If irritation develops, get medical attention.					
<u>Ingestion:</u>		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:	Exposure to fire, heat, sparks, open flame and other sources of ignition, direct sunlight or contact with oxidizing materials.
	STABLE	X		
INCOMPATIBILITY (MATERIALS TO AVOID) Reducing and oxidizing agents.				
HAZARDOUS DECOMPOSITION PRODUCTS This product gives out carbon monoxide (CO), carbon dioxide (CO ²) and smoke upon combustion. Generates heat when mixed with oxidizing materials.				
HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID Keep away from heat, sparks, open flame and other sources of ignition.	
	WILL NOT OCCUR			

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 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 solvent welding/bonding 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.	

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in a cool dark place between 50 - 80°F (10 - 27°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 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.