

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 - IDENTIFICATION

MANUFACTURER'S NAME IPS Corporation, Structural Adhesives		Transportation Emergencies: CHEMTREC: (800) 424-9300	
ADDRESS 600 Ellis Road, Durham, NC 27703		Medical Emergencies: 3 E COMPANY (24 Hour No.) (800) 451-8346	
CHEMICAL NAME and FAMILY Reactive Cement, Mixture of Synthetic Resins and Methyl Methacrylate Monomer		Business: (310) 898-3300	
TRADE NAME: WELD-ON SS 1100 Series		Weld-On SS 1105, Weld-On 1115 - Component A	
		FORMULA: Proprietary	

SECTION II - HAZARDOUS INGREDIENTS

None of the ingredients below are listed as carcinogens by IARC, NTP or OSHA

	CAS#	WEIGHT %	ACGIH-TLV	ACGIH-STEL	OSHA-PEL	OSHA-STEL
Acrylic Synthetic Resin Blend	NON/HAZ		N/A		N/A	
Methyl Methacrylate Monomer	80-62-6	< 60.0*	100 PPM		100 PPM	
Maleic Acid	110-16-7	< 5.0	N/E		N/E	
Methacrylic Acid	79-41-4	< 9.0*	20 PPM-TWA		20 PPM (Skin)	
Organic Peroxide	80-15-9	<1.0*	50 PPM		50 PPM	

Under some circumstances, mutagenic changes have been observed with Methyl Methacrylate in animal studies. Precautions should be taken to avoid unnecessary exposure 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		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: 1	1	2 - MODERATE
Label Required: Flammable Liquid		PROTECTIVE		3 - SERIOUS
		EQUIPMENT: H		4 - SEVERE
SHIPPING INFORMATION FOR CONTAINERS LESS THAN ONE LITER		H = Eye, Hand/Skin, Respiratory Protection and Impervious Apron		
DOT Shipping Name: Consumer Commodity				
DOT Hazard Class: ORM-D				

SECTION III - PHYSICAL DATA

APPEARANCE Off-White, paste	ODOR Distinct fragrant odor	BOILING POINT (°F/°C) 214°F (101°C) Based on Methyl Methacrylate Monomer
SPECIFIC GRAVITY @ 73°F ± 3.6° (20°C ± 2°) Typical 0.96 ± 0.040	VAPOR PRESSURE (mm Hg.) 29 mm Hg. @ 68°F (20°C) based on Methyl Methacrylate Monomer	PERCENT VOLATILE BY VOLUME (%) < 70 %
VAPOR DENSITY (Air = 1) 3.46 based on Monomer	EVAPORATION RATE (BUAC = 1) Approx. 3	SOLUBILITY IN WATER Based on Monomer 1.6

VOC STATEMENT: Maximum VOC 75 grams/liter (when mixed with Component "B"). Reactive Adhesive. Meets SCAQMD Rule 1168 requirements for Plastic Cement Welding.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT 51°F (11°C) T.C.C.	FLAMMABLE LIMITS (PERCENT BY VOLUME)	LEL 2.1	UEL 12.5
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. Full protective equipment, including self-contained breathing apparatus, is recommended. Fight fires from a safe distance or protected area. 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 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

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 and obtain prompt medical attention.

CHRONIC:

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.	POSS	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	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.	ACTIVE OXYGEN CONTENT (Component "A") < 1% Not considered an EPA hazardous Waste, Number D003, Reactive Waste
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HAZARDOUS DECOMPOSITION PRODUCTS

This product gives out carbon monoxide (CO), carbon dioxide (CO²) and smoke upon combustion. Generates heat when mixed with oxidizing materials.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID Keep away from heat Above 130 °F (55 °C), sparks, open flame and other sources of ignition. Do not store above 100 °F (38 °C)
	WILL NOT OCCUR	X	

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 nonflammable absorbent material sweep and scoop up using non-sparking tools 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 authorities or disposal expert.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Atmospheric levels should be maintained below established exposure limits contained in Section II. For emergency conditions, use an approved positive pressure self-contained breathing apparatus.

VENTILATION

Use only with adequate ventilation. Avoid use in close quarters or confined spaces. Open doors and/or windows to ensure airflow in volume and pattern to keep airborne contaminants below applicable exposure limits found in Section II. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone. Use on explosion-proof ventilation equipment.

PROTECTIVE GLOVES

PVA or rubber coated gloves

EYE PROTECTION

Splashproof chemical goggles

OTHER PROTECTIVE EQUIPMENT AND HYGIENIC PRACTICES

Good industrial hygiene practices and 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. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. 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.

IPS WELD-ON		MATERIAL SAFETY DATA SHEET				Date Revised: FEB 2008 Supersedes: OCT 2007	
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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 Acrylic Reactive Adhesive Activator				TRADE NAME: WELD-ON SS 1100 Series WELD-ON SS 1105 & SS 1115 Component B (Activator) FORMULA: Proprietary			
SECTION II - HAZARDOUS INGREDIENTS							
None of the ingredients below are listed as carcinogens by IARC, NTP or OSHA							
	CAS#	WEIGHT %	ACGIH-TLV	ACGIH-STEL	OSHA-PEL	OSHA-STEL	
Acrylic Synthetic Resins							
Methyl Methacrylate Monomer	80-62-6	< 64.0*	100 PPM		100 PPM		
Catalyst/Initiators	NON-HAZ						
*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				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: III				REACTIVITY: 1 1 2 - MODERATE			
Label Required: Flammable Liquid				PROTECTIVE EQUIPMENT: H 4 - SEVERE			
SHIPPING INFORMATION FOR CONTAINERS LESS THAN ONE LITER				H = Eye, Hand/Skin, Respiratory Protection and Impervious Apron			
DOT Shipping Name: Consumer Commodity							
DOT Hazard Class: ORM-D							
SECTION III - PHYSICAL DATA							
APPEARANCE Black or off-white, viscous liquid		ODOR Distinct fragrant odor		BOILING POINT (°F/°C) 214 °F (101 °C) Based on Methyl Methacrylate Monomer			
SPECIFIC GRAVITY @ 73 °F ± 3.6° (23 °C ± 2°) Typical 0.96 ± 0.040		VAPOR PRESSURE (mm Hg.) 29 mm Hg. @ 68 °F (20 °C) based on Methyl Methacrylate Monomer		PERCENT VOLATILE BY VOLUME (%) <64 %			
VAPOR DENSITY (Air = 1) 3.46		EVAPORATION RATE (BUAC = 1) Approx. 3		SOLUBILITY IN WATER Based on Monomer 1.6			
VOC STATEMENT: Maximum VOC 75 grams/liter (when components mixed). Reactive Adhesive. Meets SCAQMD Rule 1168.							
SECTION IV - FIRE AND EXPLOSION HAZARD DATA							
FLASH POINT 51 °F (11 °C) C.O.C		FLAMMABLE LIMITS (Percent by Volume)				LEL	UEL
						0.47	-
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 and avoid water flow or water streams distributing burning material or contaminated water over a large area or into sewers or storm drains.							
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 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. 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). Susceptible to spontaneous heating. Considered a mild fire hazard because of low flash point. Peroxides and decomposition products are flammable and can ignite with explosive force if confined.							

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES

OF ENTRY: X Inhalation X Skin Contact Eye Contact Ingestion

EFFECT OF OVEREXPOSURE

ACUTE:

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REPRODUCTIVE EFFECTS	TERATOGENICITY	MUTAGENICITY	EMBRYOTOXICITY	SENSITIZATION TO PRODUCT	SYNERGISTIC PRODUCTS
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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.

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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	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.	ACTIVE OXYGEN CONTENT (Component "A") < 1% Not considered an EPA hazardous Waste, Number D003, Reactive Waste
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	WILL NOT OCCUR		

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WASTE DISPOSAL METHOD
 Follow local, State and Federal regulations. Material should not be allowed to drain into domestic sewer or storm drains. Consult authorities or disposal expert.

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VENTILATION
 Use only with adequate ventilation. Avoid use in close quarters or confined spaces. Open doors and/or windows to ensure airflow in volume and pattern to keep airborne contaminants below applicable exposure limits found in Section II. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone. Use only explosion-proof ventilation equipment.

PROTECTIVE GLOVES PVA or rubber coated gloves	EYE PROTECTION Splashproof chemical goggles
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OTHER PROTECTIVE EQUIPMENT AND HYGIENIC PRACTICES
 Good industrial hygiene practices and impervious apron and a source of running water to flush or wash the eyes and skin in case of contact.

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