IPS
WELD-ON

MATERIAL SAFETY DATA SHEET

Date Revised: OCT 2004
Supersedes: SEP 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.

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 Cement
Mixture of Acrylic Resin, Methyl Methacrylate Monomer & Benzoyl Peroxide Catalyst

TRADE NAME: WELD-ON 845 2-Component Adhesive
Reactive Adhesive for Plastics & Metals
FORMULA: Proprietary

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
Base Resin - Component "A" (80%)						
Acrylic Resin	NON/HAZ		N/A		N/A	
Methyl Methacrylate Monomer	80-62-6	39 - 50*	100 PPM		100 PPM	
Catalyst/Activator - Component "B" (20%)						
Acrylonitrile-Butadiene-Styrene (ABS) Resin	NON/HAZ		N/A		N/A	
Benzoyl Peroxide	94-36-0	1 - 10*	5 mg/m³		5 mg/m³	
Mixture of: Diethylene Glycol Dibenzoate	120-55-8					
Dipropylene Glycol Dibenzoate	27138-31-4	} 65 - 90	NON/HAZ		NON/HAZ	
Triethylene Glycol Dibenzoate	120-56-9					

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.

*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.

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.

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

SHIPPING INFORMATION FOR CONTAINERS LESS THAN ONE LITER

DOT Shipping Name:	Consumer Commodity
DOT Hazard Class:	ORM-D

SPECIAL HAZARD DESIGNATIONS

	HMIS	NFPA	HAZARD RATING
HEALTH:	"A" -2, "B"-1	"A" -2, "B"-1	0 - MINIMAL
FLAMMABILITY:	"A" -3, "B"-1	"A" -3, "B"-1	1 - SLIGHT
REACTIVITY:	"A" -1, "B"-1	"A" -1, "B"-1	2 - MODERATE
PROTECTIVE			3 - SERIOUS
EQUIPMENT:	B - H		4 - SEVERE

B = Eye, Hand/Skin (for normal adhesive-welding, clean-up activities)
H = Eye, Hand/Skin, Respiratory Protection and Impermeable Apron (splash/ immersion risks)

SECTION III - PHYSICAL DATA

APPEARANCE "A" Off-white, paste like Mixture dries to tan color "B" Off-white, paste like	**ODOR** "A" Distinct Odor, "B" Essentially Odorless	**BOILING POINT (°F/°C)** 214°F (102°C) Based on Methyl Methacrylate Monomer- "A"; N/A - "B"
SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°) Typical .981 ± 0.040 - "A"; 1.327 ± 0.040 - "B"	**VAPOR PRESSURE (mm Hg.)** 29 mm Hg. @ 20°C (68°F) based on Methyl Methacrylate Monomer- "A"; Not determined - "B"	**PERCENT VOLATILE BY VOLUME (%)** Approx: 50 -70 %
VAPOR DENSITY (Air = 1) 3.46 based on Monomer - "A" N/A - "B"	**EVAPORATION RATE (BUAC = 1)** Approx. 3 - "A"; not determined - "B"	**SOLUBILITY IN WATER** "A", 1.6 Based on Monomer "B", 0.3 g/l

VOC STATEMENT: Reactive Adhesive. Maximum VOC 70 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	FLAMMABLE LIMITS (Percent by Volume)	LEL	UEL
"A" - 51°F (10.6°C) T.C.C.; "B" - 420°F (217°C) C.O.C		"A" 2.1, "B" -	"A" 12.5, "B" -

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. Peroxides and decomposition products are flammable and can ignite with explosive force if confined.

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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 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 conjuctival inflammation.

Ingestion: Moderately toxic. Do not induce vomiting and obtain prompt medical attention.

CHRONIC:

Eye Contact: Dibutyl Phthalate may cause moderate eye burning.

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. Extremely high condentrations have caused embryotoxic effects in laboratory animals.

Ingestion: Toxicity described in animals exposed by ingestion include decreased body weight and increased relative kidney weight at high dose levels. High oral doses have caused damage to the sperm producing cells of the testis.

REPRODUCTIVE EFFECTS	TERATOGENICITY	MUTAGENICITY	EMBRYOTOXICITY	SENSITIZATION TO PRODUCT	SYNERGISTIC PRODUCTS
POSS.	N. AP.	POSS	N. AP.	POSS.	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: If overcome by vapors, remove patient to fresh air and if breathing stopped, give artificial respiration. If breathing is difficult, give oxygen. Contact physician/obtain medical assistance 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			CONDITIONS TO AVOID:
	UNSTABLE		Exposure to fire, heat, sparks, open flame and other sources of ignition,
	STABLE	X	direct sunlight or contact with oxidizing materials.

INCOMPATIBILITY
(MATERIALS TO AVOID) Reducing and oxidizing agents.

ACTIVE OXYGEN CONTENT (Component "B") < 1%
Not considered an EPA hazardous waste Number D003.

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

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. 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
Observe all local, State and Federal regulations concerning health and environmental exposures. Consult local, State or Federal authorities or disposal expert for proper disposal procedures.

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. 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 and/or mixing practices and procedures are used for solvent welding.

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
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
For best performance, store in a cool dark place between 45°F (7°C) and 65°F (16°C). Keep away from all sources of heat, sparks, open flame and other sources of ignition. Close container after each use. Ground large 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 adhesive application literature. All material handling equipment should be electrically grounded.

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