IPS
WELD-ON

MATERIAL SAFETY DATA SHEET

Date Revised: MAR 2005
Supersedes: JUL 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
Reactive Cement
Mixture of Epoxy Resin and Amines

TRADE NAME:
WELD-ON 15 (2-Component Epoxy Adhesive System) Cartridge
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
Component "A" Base Resin (50%)						
Mixture of Proprietary Fillers	NON/HAZ	20 - 50	N/A		N/A	
Bis-phenol A-based Epoxy Resin	025085-99-8	50 - 80	N/E		N/E	
Component "B" Catalyst (50%)						
Proprietary blended Aminated Oligomer	NON/HAZ	85 - 95	N/E		N/E	
2-Methylpentamethylenediamine	15520-10-2	5 - 10	N/E		N/E	
2,4,6 tris-dimethylaminomethylphenol	90-72-2	5 - 10	N/E		N/E	

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 listi

Title III Section 313 Supplier Notification: This product is not known or believed to contain toxic chemicals subject to the reporting requirements of Section 313 of the Em gency Planning and Community Right-To-Know Act of 1986 and of 40CFR372.

BULK SHIPPING INFORMATION / CONTAINERS LARGER THAN ONE GALLON

DOT Shipping Name:	Amines, Liquid Corrosive, n. o. s.
DOT Hazard Class:	8
Identification Number:	UN 2735
Packaging Group:	III
Label Required:	Corrosive

SHIPPING INFORMATION FOR CONTAINERS LESS THAN ONE GALLON (5 L max.)

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

SPECIAL HAZARD DESIGNATIONS

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

C = Eye, Hand/Skin Protection plus Impervious Apron
(apron advisable only if splashing is likely to occur)

SECTION III - PHYSICAL DATA

APPEARANCE	ODOR	BOILING POINT (°F/°C)
"A" Blue or off-white, syrupy liquid "B" Dark amber syrupy liquid	"A" Mild Odor, "B" Amine	N/D - "A"; N/D - "B"
SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°)	**VAPOR PRESSURE (mm Hg.)**	**PERCENT VOLATILE BY VOLUME (%)**
Typical 1.03 ± 0.040	N/A	Approx: 50 -70 %
VAPOR DENSITY (Air = 1)	**EVAPORATION RATE (BUAC = 1)**	**SOLUBILITY IN WATER**
1.35 - 1.45 - "A" Approx. 1.0 - "B"	N/A	"A", Negligible (<0.1%) "B", Negligible (<0.1%)

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	FLAMMABLE LIMITS	LEL	UEL
"A" >200°F (94°C) T.C.C.; "B" >200°F (94°C) T.C.C	(Percent by Volume)	-	-

FIRE EXTINGUISHING MEDIA

Ansul "Purple K" potassium bicarbonate dry chemical, any appropriately sized ABC dry chemical, carbon dioxide, or foam extinguisher can be used. Use of a water fog by trained personnel can extinguish small/large fires.

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. Evacuate enclosed areas. Stay upwind. Use of a water fog by trained personnel can extinguish small/large fires and avoid water flow or water streams/spray distributin burning material or contaminated water over a large area or 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 a or near floor or lower levels and flash back. Susceptible to spontaneous heating.

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SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: X Inhalation X Skin Contact X Eye Contact ____ Ingestion

EFFECT OF OVEREXPOSURE

ACUTE:

Inhalation:	May cause headaches, nausea, dizziness, irritation in the respiratory tract. Coughing and chest pain may result.
Skin Contact:	May cause severe irritation/dermatitis.
Eye Contact:	May cause severe irritation and pain, lacrimation, conjuctivitis and corneal edema.
Ingestion:	May cause headache, nausea or vomiting.
Sensitizer	May cause allergic skin and/or respiratory reaction.

CHRONIC: None known at this time.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing diseases such as asthma, chronic respiratory disease, eye disease, skin disorders and allergies.

EMERGENCY AND FIRST AID PROCEDURES

Inhalation:	Move patient immediately to fresh air and call a physician. Keep patient absolutely quiet and, if breathing is stopped give artificial respiratio oxygen inhalation through suitable equipment.
Eye Contact:	Flush eyes with flowing water for 15 minutes and call a physician.
Skin Contact:	Remove contaminated clothing and shoes. Wash skin contact area with plenty of soap and water for at least 15 minutes. If irritation develo medical attention and call physician.
Ingestion:	Give 1 or 2 glasses of water or milk. Do not induce vomiting. Call physician or poison control center immediately.

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

SECTION VI - REACTIVITY

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		
	STABLE	X	Excessive heat, sparks, flame, or other sources of ignition, strong oxidizers, caustics or acids.

INCOMPATIBILITY
(MATERIALS TO AVOID) Oxidizing agents, acids, bases, isocyanates, and chlorinated compounds..

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, oxides of nitrogen, HCl and dense smoke.

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR		
	WILL NOT OCCUR	X	Excessive heat, strong caustics or acids.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Stop the leak. Ventilate the space involved. Reduce vapor spreading with a water spray. Shut off or remove all ignition sources. Construct a dike to prevent spreading. Clean-up and package spilled material in disposal compatible container(s). Prevent wastewater entry into storm drains or waterways.

WASTE DISPOSAL METHOD
Follow local, State and Federal regulations. Consult disposal expert. Can be disposed of by incineration or use of biological treatment by permitted TSDF.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)
In poorly ventilated areas, a NIOSH approved full facepiece mask with organic vapor cartridge is recommended. For emergency situations, use self-contained breathing apparatus in pressure demand mode.

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. Local exhaust recommended when appropriate to control employee breathing zone exposure.
Mechanical (general) not recommended as the sole means of controlling employee exposures.

PROTECTIVE GLOVES	EYE PROTECTION
Nitrile or neoprene for frequent dipping/immersion using component "B". Use of latex/nitrile surgic gloves or solvent resistant barrier creme should provide adequate protection when normal solvent-cement welding practices & procedures for small quantity mixing and/or application are used for cementing plastic sheet(s) or other substrates.	Splashproof chemical goggles, face shield, safety glasses 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 the shade. Avoid contact with skin. Thoroughly launder contaminated clothing before reusing. Discard contaminated shoes. Enforce good housekeeping practic When mixing or applying, prevent splashing and spills.

OTHER PRECAUTIONS
Follow all precautionary information given on container label, product bulletins and our solvent cementing literature. All handling equipment should be electrically grounded.

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