



GHS SAFETY DATA SHEET

Weld-On® AA4™ Low VOC Solvent Cement for Bonding Acrylics

Date Revised: FEB 2010
Supersedes: JUN 2009

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Weld-On® AA4™ Low VOC Solvent Cement for Acrylic
PRODUCT USE: Low VOC Solvent Cement for Bonding Acrylics
SUPPLIER:
MANUFACTURER: IPS Corporation
 17109 South Main Street, Carson, CA 90248-3127
 P.O. Box 379, Gardena, CA 90247-0379
 Tel. 1-310-898-3300
EMERGENCY: Transportation: Tel. 800.424.9300, 703.527.3887 CHEMTREC (International) **Medical:** Tel. 800.451.8346, 760.602.8703 3E Company (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Health		Environmental		Physical
Acute Toxicity:	Category 4	Acute Toxicity:	None Known	
Skin Irritation:	Category 3	Chronic Toxicity:	None Known	
Skin Sensitization:	NO			
Eye:	Category 2B			

GHS LABEL: OR **Signal Word:** Warning **WHMIS CLASSIFICATION:** CLASS D, DIVISION 1

Hazard Statements	Precautionary Statements
H320: Causes eye irritation H335: May cause respiratory irritation H336: May cause drowsiness or dizziness H351: Suspected of causing cancer	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P337+P313: Get medical advice/attention P403+P233: Store in a well ventilated place. Keep container tightly closed P501: Dispose of contents/container in accordance with local regulation

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS #	REACH	CONCENTRATION
			Pre-registration Number	% by Weight
Methylene Chloride* (dichloromethane)	75-09-2	200-838-9	Under development	30 - 60
Trichloroethylene*	79-01-6	201-167-4	Under development	40 - 60
Methyl Methacrylate Monomer*, Stabilized (MMA)	80-62-6	201-297-1	05-2116297731-37-0000	0 - 1

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.
 * Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).

SECTION 4 - FIRST AID MEASURES

Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.
Skin contact: Wash skin with soap and water. If irritation develops, get medical attention
Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.
Ingestion: Do not induce vomiting. Seek medical advice immediately.

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water fog or fine spray, carbon dioxide, dry chemical or foam. **HMIS** **NFPA** **0-Minimal**
Unsuitable Extinguishing Media: Dry chemical powder. **Health** **2** **2** **1-Slight**
Exposure Hazards: Inhalation and dermal contact. **Inflammability** **1** **1** **2-Moderate**
Combustion Products: Oxides of carbon, hydrogen chloride. **Reactivity** **0** **0** **3-Serious**
Protection for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing. **4-Severe**

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Clear all personnel from area. Do not breathe vapors. Ventilate area of leak or spill. Wear protective equipment positive pressure self contained or air supplied breathing apparatus. Follow confined space entry procedures.
Environmental Precautions: Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.
Methods for Cleaning up: Mop or soak up immediately. Place in properly labeled metal containers.
Materials not to be used for clean up: Zinc, Aluminum or plastic containers

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing. Do not swallow. Use with adequate ventilation. Do not cut, drill, grind, weld or perform similar operations on or near empty containers. Vapors of this product are heavier than air and will collect in low areas. Do not eat, drink or smoke while handling.
Storage: Store in a dry place. Keep container tightly closed when not in use. Significant vapor pressures (>5psi) can be generated above 55°F. Follow all precautionary information on container label, product bulletins and solvent bonding literature.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL:
	Methylene Chloride (dichloromethane)	50 ppm	N/E	25 ppm	125
	Trichloroethylene	50 ppm	100 ppm	100 ppm	N/E
	Methyl Methacrylate Monomer, Stabilized (MMA)	50 ppm	100 ppm	100 ppm	N/E

Engineering Controls: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. Lethal concentrations may exist in areas with poor ventilation
Monitoring: Maintain breathing zone airborne concentrations below exposure limits.
Personal Protective Equipment (PPE):
Eye Protection: Use chemical goggles. If exposure causes eye discomfort, use a full-face respirator.
Skin Protection: Prevent contact with the skin as much as possible. Use protective clothing chemically resistant to this material. Remove contaminated clothing immediately, wash skin area with soap and water and launder clothing before reuse or dispose of properly.
Respiratory Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above. With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, thin liquid	Odor Threshold:	250 ppm (Methylene Chloride)
Odor:	Irritating		
pH:	Not Applicable		
Melting/Freezing Point:	-96.7°C (-142.1°F) (Methylene Chloride)		
Boiling Point:	39.8°C (104°F) Based on first boiling component: Methylene Chloride	Evaporation Rate:	> 1.0 (BUAC = 1)
Flash Point:	None (Methylene Chloride)	Flammability:	None
Specific Gravity:	1.375 @23°C (73.4°F)	Flammability Limits:	LEL: 14% (Methylene Chloride)
Solubility:	1.3% @ 25°C(Methylene Chloride)		UEL: 22% (Methylene Chloride)
Partition Coefficient n-octanol/water:	Not Available	Vapor Pressure:	355 mmHG @ 20C (Methylene Chloride)
Auto-ignition Temperature:	556°C (1033°F) (Methylene Chloride)	Vapor Density:	>2.0 (Air = 1)
Decomposition Temperature:	Not Applicable	Other Data: Viscosity:	Water-thin
VOC Content:	When applied as directed, per SCAQMD Rule 1168, Test Method 316A,VOC content is: ≤250 g/l.		

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions. (See Section 7)
Hazardous decomposition products:	Depending on temperature and air supply, may include hydrogen chloride, trace amounts of chlorine, phosgene.
Conditions to avoid:	Avoid open flames, welding arcs, or other high temperature sources. Avoid direct sunlight.
Incompatible Materials:	Oxidizers, strong bases, amines, metals such as zinc powders, aluminum or magnesium powders, potassium sodium.

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:

Inhalation:	Excessive overexposure may cause irritation to nose and throat. In confined areas, vapor can accumulate and can cause unconsciousness.
Eye Contact:	May cause moderate eye irritation which may be slow to heal. May cause slight corneal injury. Vapor may cause mild discomfort and redness.
Skin Contact:	Prolonged contact may cause skin burns. May cause more severe response on covered skin (under clothing and gloves).
Ingestion:	Low toxicity if small amount swallowed, however larger amounts may cause injury. Aspiration into the lungs may occur during ingestion or vomiting.

Chronic (long-term) effects: IARC Classification 2B (Methylene Chloride)

Toxicity:	LD50	LC50
Methylene Chloride (dichloromethane)	Oral: 1500- 2500 mg/kg (rat) , Dermal: Not Determined	Inhalation 7 hrs. >10000 PPM (rat)
Trichloroethylene	Oral: 5650 mg/kg (rat)	Inhalation 4 hrs. 12000 PPM (rat)
Methyl Methacrylate Monomer, Stabilized (MMA)	Oral: 7900 mg/kg (rat), Dermal: >35000 mg/kg (rabbit)	Inhalation: 3 hrs. 7093 PPM (rat)

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	None Known
Mobility:	In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of ≤250 g/l. Mobility in soil is high.
Degradability:	Not readily biodegradable
Bioaccumulation:	Low

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name:	Dichloromethane (Mixture)
Hazard Class:	6.1
Secondary Risk:	None
Identification Number:	UN 1593
Packing Group:	PG III
Label Required:	Toxic (Domestic USA and International)
Marine Pollutant:	NO

EXCEPTION for Ground Shipping

DOT Limited Quantity: Up to 4L per inner packaging, 30 kg gross weight per package.
Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D" .

TDG INFORMATION

TDG CLASS:	Toxic 6.1
SHIPPING NAME:	Dichloromethane (Mixture)
UN NUMBER/PACKING GROUP:	UN 1593, PG III

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information:	Harmful, Suspected Carcinogen	Ingredient Listings:	USA TSCA, Europe EINECS, Canada DSL, Australia, AICS, Korea ECL/TCCL, Japan MITI (ENCS), CA Prop 65
Symbols:	Xn		
Risk Phrases:	R23/34/35: Toxic by inhalation, in contact with skin and if swallowed. R36/37: Irritating to eyes and respiratory system. R40: Possible risks of irreversible effects.		R66: Repeated exposure may cause skin dryness or cracking R67: Vapors may cause drowsiness and dizziness
Safety Phrases:	S2: Keep out of the reach of children. S7:Keep container tightly closed when not in use. S9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition. No smoking. S23/24/25: Avoid breathing vapors, contact with skin and eyes.		S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S29: Do not empty into drains. S33: Take precautionary measures against static discharges. S51: Use only in well ventilated areas.

SECTION 16 - OTHER INFORMATION

Specification Information:		
Department issuing data sheet:	IPS, Safety Health & Environmental Affairs	All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).
E-mail address:	<EHSinfo@ipscorp.com>	
Training necessary:	Yes, training in practices and procedures contained in product literature.	
Reissue date / reason for reissue:	2/19/2010 / Modified GHS Standard Format	
Intended Use of Product:	Solvent Cement for Bonding Acrylics	

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.