



MATERIAL SAFETY DATA SHEET

WELD-ON® 4 Solvent Cement for Acrylic

Date Revised: JUN 2009
Supersedes: Original

SECTION I - IDENTIFICATION

- TRADE NAME: **Weld-On 4** Solvent cements for acrylics, polycarbonate, etc. **May not be sold/used within the South Coast AQMD**
- MANUFACTURER & SUPPLIER: IPS Corporation
17109 S. Main St. -- P.O. Box 379 -- Gardena, CA. 90248 --USA
Tel. 310 - 898 - 3300
FAX: 310 - 898 - 3390
- EMERGENCY: Transportation incidents: Tel. 800.424.9300, 703.527.3887 CHEMTREK (Internation Medical incidents: Tel. 800.451.8346 3E Company)

SECTION 2 - CHEMICAL COMPOSITION

	CAS#	CONCENTRATION	SYMBOL	R phrases	S phrases	ACGIH-TLV	ACGIH-STEL	OSHA-PEL	OSHA-STEL
Methyl Methacrylate Monomer, Stabilized	80-62-6	< 1	F, Xi	11-36/37/38-43	9-16-24-37	100 PPM		100ppm	
Trichloroethylene	79-01-6	40 - 60*	Xi	11-20-/36/37-66	9-16-23-26-33	50 PPM	100 PPM	50 PPM	200 PPM
Methylene Chloride (dichloromethane)	75-09-2	30 - 60*	Xi		23-24-25-26-3	50 PPM		25 PPM	125 PPM

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.

SECTION 3 - RISK/HAZARD IDENTIFICATION

- Human: -Highly flammable; keep away from sources of ignition. Vapors are heavier than air and may travel to sources of ignition at or near ground or lower level(s) and flash back.
-Irritating, do not breathe vapours. -See also section 11.
- Environment: -Emission of volatile organic compounds (VOC's).
-Spills or leaks can result in ground water contamination.
- WHMIS CLASSIFICATION: CONTROLLED PRODUCT
CLASS B, DIVISION 2, CLASS D, DIVISION 2B

SECTION 4 - FIRST AID MEASURES

- Inhalation: Wash skin with soap and water. Remove contaminated clothing and shoes. Launder clothing before reuse. If irritation develops, get medical attention.
- Contact with eyes: Remove patient to fresh air and if breathing stopped, give artificial respiration. If breathing is difficult, give oxygen. Contact physician immediately.
- Skin contact: Immediately flush eyes with flowing water for 15 minutes and contact a physician.
- Ingestion: Give 1 or 2 glasses of water or milk. Do not induce vomiting. Call physician or poison control center immediately.
- Symptoms: -See section 11.

SECTION 5 - FIREFIGHTING MEASURES

- Suitable Extinguishing Media: -Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.
- Unsuitable Extinguishing Media: -Water spray or stream.
- Exposure Hazards: -Carbon monoxide, carbon dioxide, phosgene gas and smoke
- Combustion Products: -Carbon monoxide, carbon dioxide, phosgene gas and smoke
- Protection for Firefighters: -Self-contained breathing apparatus or full-face positive pressure airline masks.

SECTION 6 - MEASURES FOR ACCIDENTAL RELEASE (LEAKS/SPILLAGE)

- Personal precautions: -Keep away from heat, sparks and open flame.
-Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.
-Unprotected personnel should move upwind. -Prevent contact with skin or eyes (see section 8).
- Environmental Precautions: -Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.
- Methods for Cleaning up: -Clean up with sand or other inert absorbant material.
-Transfer to a closable vessel (Metal or polyethylene [PE])
- Materials not to be used for clean up: -Liquid(s)

SECTION 7 - STORAGE AND HANDLING

- Handling: -Avoid breathing of vapor, avoid contact with eyes, skin and clothing.
-Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods.
-Do not eat; drink or smoke while handling.
- Storage: -Store in ventilated room or shade between 5°C and 32.5°C (40°F - 90°F).
-Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxydizers and isocyanate
-Keep container tightly closed when not in use.
-Follow all precautionary information on container label, product bulletins and solvent cementing literature.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

- System Design: If ventilated cabinet, enclosure or fume hood is necessary, average airflow should be at least 100 FPM (50.8 cm/sec).
- Monitoring: Maintain breathing zone airborne concentrations below exposure limits (see section 2).
- Breathing 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 in section 2. With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment (filter A)
- Skin Protection: Prevent contact with the skin as much as possible. Polyethylene or PVA coated rubber gloves should be used 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 making plastic welded sheet/pipe joints.
- Eye Protection: Avoid contact with eyes, wear splashproof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, thin liquid		
Odour:	Characteristic odor of chlorinated solvents		
P.H.	N.A.P.		
Boiling Point:	104°F (40°C) Based on first boiling component: Methylene Chloride		
Flash Point:	NONE		
Autoflammability:			
Vapour Pressure:	355 mm Hg. @ 68°F (20°C) based on first boiling component: Methylene Chloride		
Solubility:	Negligible.		
Other Data:	Vapour Density:	2.93 (Air = 1)	Specific Gravity @23°C ± 2° (73°F ± 3.6°) Typically 1.37 ± 0.040
	Evaporation Rate:	14.5 (BUAC = 1)	Flammability Limits: LEL: N/A
	Viscosity:	Water-thin <90 CPS Minimum @ 23°C ± :	UEL: N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable
Conditions to avoid:	Keep away from heat, sparks, open flame and other ignition sources.
Effects:	When forced to burn, this product gives out carbon monoxide, carbon dioxide, hydrogen chloride and smoke.
Materials to avoid:	Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.
Hazardous decomposition products:	None in normal use. See item 10.2 for reactivity/combustion effects.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute symptoms and effects:	Workplace monitoring should be performed to determine exposure level(s) IAW (in accordance with) 29 CFR 1910.1052/T8 CAC 5202
Inhalation:	Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.
Eye Contact:	Vapours slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.
Skin Contact:	Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.
Ingestion:	May cause nausea, vomiting, diarrhea and mental sluggishness.
Chronic (long-term) effects:	None known to humans

SECTION 12 - ECOLOGICAL INFORMATION

Mobility:	In normal use, emission of volatile organic compounds (VOC's) to the air takes place. Typically at a rate of 250 Grams/Litre. Minimal other adverse effects include possible ground water contamination from release to soil, sewers, drains or water course.
Degradability:	Biodegradable
Accumulation:	Minimal to none.

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert. Can be disposed of by controlled incineration. Excessive quantities should not be permitted to enter drain sewers or water courses. Empty containers should be air dried before disposing.

SECTION 14 - TRANSPORT INFORMATION

DOT, IATA, ADR, IMO/MDG SHIPPING INFORMATION

Proper Shipping Name:	Dichloromethane
Hazard Class:	6.1
Secondary Risk	None
Identification Number:	UN 1593
Packing Group:	III
Label Required:	TOXIC - 6

EXCEPTION: Case quantities of cement in containers of less than one liter may be shipped as LIMITED QUANTITY or CONSUMER COMMODITY, ORM-D/ORM-D Air

TDG INFORMATION

TDG CLASS:	TOXIC 6.1
SHIPPING NAME:	DICHLOROMETHANE
UN NUMBER:	1593, PG III

Marine Pollutant: NO

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information:	Irritant	California Proposition 65 Warning	This product contains chemicals known to the state of California to cause cancer.
Symbols:	Xi		
Risk Phrases:			
Safety Phrases:	R-20 Harmful by inhalation	R-66 repeated exposure may cause skin dryness or cracking.	
	R-36/37/38 Irritating to eyes, respiratory system and skin.	R-67 Vapours may cause drowsiness and dizziness.	
	S-2 Keep out of reach of children.	S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.	
	S-7 Keep container tightly closed when not in use.	S-29 Do not empty into drains.	
	S-9 Keep container in a well-ventilated place.	S-33 Take precautionary measures against static discharges.	
	S-16 Keep away from sources of ignition. No smoking.	S-51 Use only in well ventilated areas.	
	S-23/24/25 Avoid breathing vapours, contact with skin and eyes.		

SECTION 16 - OTHER INFORMATION

Specification Information:		Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL, Japan MITI (ENCS)
Department issuing data sheet:	IPS, Safety Health & Environmental Affairs	
e-mail address:	<EHSinfo@ipscorp.com>	
Training necessary:	Yes, training in practices and procedures contained in solvent-cementing literature.	
Reissue date / reason for reissue:	JUN 2009 / Reformat	
Intended Use of Product:	Solvent Cement for bonding/cementing plastics: acrylic, polycarbonate, styrene, butyrate, PETG etc.	

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.