

Weld On #16 Safety Data Sheet

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Weld-On 16
PRODUCT USE: Solvent Cement for Bonding Acrylics

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

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

GHS LABEL:



Signal Word:
Warning

WHMIS CLASSIFICATION:

CLASS B, DIVISION 2
CLASS D, DIVISION 1B

Hazard Statements	Precautionary Statements	Risk Phrases	Safety Phrases
H225: Highly flammable liquid and vapour H319: Causes serious eye irritation H315: Causes skin irritation	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking P261: Avoid breathing dust/fume/gas/mist/vapors/spray	R11 Highly flammable R20 Harmful by inhalation R36+37+38 Irritating to eyes, respiratory system, and skin. R40 Limited evidence of a carcinogenic effect	S2 Keep out of reach of children S9 Keep container in a well ventilated place S16 Keep away from ignition- No smoking S23+24+25 Avoid breathing vapours, contact with skin and eyes S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
H317: May cause an allergic skin reaction H335: May cause respiratory irritation	P280: Wear protective gloves/protective clothing/eye protection/face protection P337+P313: Get medical advice/attention	R43 May cause sensitization by skin contact R66 Repeated exposure may cause skin dryness or cracking R67 Vapours may cause drowsiness/dizziness	S29 Do not empty into drains S33 Take precautionary measures against static discharges S36/37 Wear suitable protective clothing and gloves. S46 If swallowed seek medical advice immediately and show this container or label
H336: May cause drowsiness or dizziness H351: Suspected of causing cancer EUH066: Repeated exposure may cause skin dryness or cracking	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	CLASSIFICATION
			Pre-registration Number	% by Weight	
Methylene Chloride*# (Dichloromethane)	75-09-2	200-838-9	17-2119926076-39-0000	30 - 60	Flammable liquids 2 (H225), F-Highly Flammable (R11), Xi-Irritant (R36/37/38), Limited evidence-carcinogenic effect (R40)
Methyl Acetate	79-20-9	201-185-2	17-2119926085-40-0000	10 - 15	Flammable liquids 2 (H225), F-Highly Flammable (R11), Xi-Irritant (R36/37/38)
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	05-2116297728-24-0000	10 - 30	Flammable liquids 2 (H225), F-Highly Flammable (R11), Xi-Irritant (R36/37/38)
Methyl Methacrylate Monomer*, Stabilized (MMA)	80-62-6	201-297-1	05-2116297731-37-0000	0 - 2	Flammable liquids 2 (H225), F-Highly Flammable (R11), Xi-Irritant (R36/37/38)

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).
 # indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

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.
Unsuitable Extinguishing Media: Dry chemical powder.
Exposure Hazards: Inhalation and dermal contact.
Combustion Products: Hydrogen chloride, trace amounts of chlorine, phosgene.
Protection for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing.

Health	HMIS 2	NFPA 2	0-Minimal
Flammability	3	3	1-Slight
Reactivity	1	1	2-Moderate
			3-Serious
			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. Store below 80°F (27°C). Follow all precautionary information on container label, product bulletins and solvent bonding literature.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	WEL TWA	WEL STEL	Sk/BMGV*	*Note: BMGV = Non-mandatory biological monitoring guidance values Sk = Skin notation (readily absorbed through skin) R40 = Limited evidence of a carcinogenic effect
	Methylene Chloride (dichloromethane)	100 ppm	300 ppm	Sk/BMGV/R40	
Methyl Acetate	200 ppm	250 ppm	Sk/BMGV		
Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm			
Methyl Methacrylate Monomer, Stabilized (MMA)	50 ppm	100 ppm			

Predicted No Effect Concentration (PNEC)	Component	Aquatic mg/L	Terrestrial	Bioaccumulation	Microbiological	Atmospheric
	Methylene Chloride (dichloromethane)	0.54 mg/l fresh		0.583 mg/Kg (soil)	Unlikely	
Methyl Acetate						
Methyl Ethyl Ketone (MEK)	0.0056 mg/l fresh		0.0023 mg/kg (soil)	Unlikely		
Methyl Methacrylate Monomer, Stabilized (MMA)						

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.



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, medium syrupy liquid	Odor Threshold:	5.4 ppm (MEK)
Odor:	Ketone	Evaporation Rate:	> 1.0 (BUAC = 1)
pH:	Not Applicable	Flammability:	None
Melting/Freezing Point:	-99°C (-146°F) (Methyl Acetate)	Flammability Limits:	LEL: 1.4% (MEK)
Boiling Point:	39.8°C (104°F) Based on first boiling component: Methylene Chloride	UEL: 22% (Methylene Chloride)	
Flash Point:	-10°C (14°F) (Methyl Acetate)	Vapor Pressure:	355 mmHG @ 20C (Methylene Chloride)
Specific Gravity:	1.107 @23°C (73.4°F)	Vapor Density:	>2.0 (Air = 1)
Solubility:	32g/100g H2O (Methyl Acetate)		
Partition Coefficient n-octanol/water:	Not Available		
Auto-ignition Temperature:	454°C (849°F) (Methyl Acetate)		
Decomposition Temperature:	Not Applicable		
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:

	LD ₅₀	LC ₅₀	Target Organs
Methylene Chloride (dichloromethane)	Oral: 1500- 2500 mg/kg (rat) , Dermal: Not Determined	Inhalation: 7 hrs. >10000 PPM (rat)	STOT SE3
Methyl Acetate	Oral: > 5000 mg/kg (oral/rabbit)	Inhalation: 4 hrs. 12000 PPM (rat)	STOT SE3
Methyl Ethyl Ketone (MEK)	Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)	Inhalation: 8 hrs. 23.500 mg/m ³ (rat)	STOT SE3
Methyl Methacrylate Monomer, Stabilized (MMA)	Oral: 7900 mg/kg (rat), Dermal: >35000 mg/kg (rabbit)	Inhalation: 3 hrs. 7093 PPM (rat)	STOT SE3

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:	Moderately biodegradable
Bioaccumulation:	Low

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name:	Flammable Liquid, toxic n.o.s. (Methyl Acetate, Dichloromethane)	EXCEPTION for Ground Shipping
Hazard Class:	3	
Secondary Risk:	6.1	DOT Limited Quantity: Up to 1L per inner packaging, 30 kg gross weight per package.
Identification Number:	UN 1992	Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D" .
Packing Group:	PG II	
Label Required:	Flammable Liquid & TOXIC - 6	
Marine Pollutant:	NO	

TDG INFORMATION	
TDG CLASS:	FLAMMABLE LIQUID 3, TOXIC 6.1
SHIPPING NAME:	Flammable Liquid, toxic n.o.s. (Methyl Acetate, Dichloromethane)
UN NUMBER/PACKING GROUP:	UN 1992, PG II

SECTION 15 - REGULATORY 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:	12/24/2014 / Updated GHS Standard Format	
Intended Use of Product:	Solvent Cement for Bonding Acrylics	

SECTION 16 - OTHER INFORMATION

Precautionary Label Information:	Flammable, Harmful, Suspected Carcinogen	Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia, AICS, Korea ECL/TCCL, Japan MTI (ENCS), CA Prop 65
Symbols:	F, Xn	
Risk Phrases:	R11: Highly flammable. R36: Irritating to eyes. R37/38: Irritating to respiratory system and skin. R40: Limited evidence of a carcinogenic effect	R43: May cause sensitization by skin contact. R66: Repeated exposure may cause skin dryness or cracking R67: Vapors may cause drowsiness and dizziness
Hazard Statements:	H225: Highly flammable liquid and vapour H319: Causes serious eye irritation H315: Causes skin irritation H317: May cause an allergic skin reaction	H335: May cause respiratory irritation H336: May cause drowsiness or dizziness H351: Suspected of causing cancer EUH066: Repeated exposure may cause skin dryness or cracking
Safety Phrases:	S2: Keep out of the reach of children. 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. S36/37: Wear suitable protective clothing and gloves. S46: If swallowed, seek medical advise immediately and show this container or label.



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