



GHS SAFETY DATA SHEET

WELD-ON® 810™ Low VOC 2-Component Adhesive

Date Revised: DEC 2017
Supersedes: DEC 2014



SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WELD-ON® 810™ Low VOC 2-Component Adhesive Kit
PRODUCT USE: 2-Component Kit, Low VOC Adhesive for for bonding large diameter PVC and CPVC pipe and fittings; also bonds ABS, Styrene, Acrylic, FRP (fiberglass-reinforced polyester), aluminum (non-anodized), other metals, concrete, clay and other materials to themselves or to dissimilar materials.
SUPPLIER: Pacific Industrial Access PTY LTD
 11 Lieber Grove
 Carrum Downs, Vic 3201 AUSTRALIA
 Tel. +61-3-9770-8886
 Emergency - Call 13 11 26 (Poisons Australia)
MANUFACTURER: IPS Corporation
 17109 South Main Street, Gardena, CA 90248-3127
 P.O. Box 379, Gardena, CA 90247-0379
 Tel. 1-310-898-3300
EMERGENCY: Transportation: CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International) **Medical:** CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Health		Environmental		Physical	
Acute Toxicity:	Category 4	Acute Toxicity:	Category III	Flammable Liquid:	Category 2
Skin Irritation:	Category 3	Chronic Toxicity:	Category IV		
Skin Sensitization:	YES				
Eye:	Category 2B				

GHS LABEL:   **Signal Word:** Danger **AU Hazard Category:** Category 2 **WHMIS CLASSIFICATION:** CLASS B, DIVISION 2
AU Poisons Schedule: S6 **ADG CLASSIFICATION:** Class 3: Flammable Liquids

Hazard Statements		Precautionary Statements		
H-225 Highly flammable liquid and vapor	H-317 May cause irritation/allergic skin reaction	P-260 Do not breathe vapor	P-233 Keep container closed	P-271 Use in well-ventilated area

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS#	EINECS #	REACH Pre-registration Number	CONCENTRATION % by Weight
Component "A" (Base Resin) Methyl Methacrylate Monomer (MMA),* Stabilized	80-62-6	201-297-1	05-2116297731-37-0000	45 - 75
Component "B" (Catalyst-Initiator) Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	05-2116297728-24-0000	25 - 60
Benzoyl Peroxide (BPO)*	94-36-0	202-327-6	05-2116297715-31-0000	5 - 12

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: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice.
Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.
Ingestion: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.
Likely Routes of Exposure: Inhalation, Eye and Skin Contact
Acute symptoms and effects:
Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.
Eye Contact: Vapors 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 (MEK): Low level chronic exposure has been shown to cause decreased memory and impairment of the central nervous system.

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.	HMIS	NFPA	0-Minimal
Unsuitable Extinguishing Media: Water spray or stream.	Health	2	1-Slight
Exposure Hazards: Inhalation and dermal contact	Flammability	3	2-Moderate
Combustion Products: Oxides of carbon, oxides of nitrogen, hydrogen chloride hydrocarbons, acrid smoke and toxic gases.	Reactivity	2	3-Serious
	PPE	B	4-Severe
Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure air-supply masks.			
AU Hazchem Code: 3YE			

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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.
 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: Contain spill with sand or other inert adsorbent or absorbent material. Use non-sparking tools.
 Transfer to a closable vessel (Metal or polyethylene [PE])

SECTION 7 - HANDLING AND STORAGE

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 between 50° - 80°F (10° - 27°C), Keep container tightly closed when not in use.
 Keep away from ignition sources and incompatible materials. Follow all precautionary information on container label and product bulletins.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL	AU (NOHSC) TWA	AU (NOHSC) STEL
	Methyl Methacrylate	50 ppm	100 ppm	100 ppm	N/E	50 ppm	100 ppm
	Methyl Ethyl Ketone	200 ppm	300 ppm	200 ppm	N/E	150 ppm	300 ppm
	Benzoyl Peroxide	5 mg/m ³	N/E	5 mg/m ³	N/E	N/E	N/E

Engineering Controls: Use local exhaust as needed.
Monitoring: Maintain breathing zone airborne concentrations below exposure limits.
Personal Protective Equipment (PPE):
Eye Protection: Avoid contact with eyes, wear splashproof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields,
Skin Protection: Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion.
 Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application practices and procedures are used for making structural bonds.
Respiratory Protection: Use in a well-ventilated room. 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:	"A" White, viscous liquid; "B" Clear, syrupy liquid	Odor Threshold:	"A" 0.75 ppm (MMA)
Odor:	"A" Acrid odor, "B" Ketone		"B" 5.4 ppm (MEK)
P.H.:	Not Applicable	Evaporation Rate:	"A" > 1.0 (BUAC = 1), "B" <1
Boiling Point:	"A" -100.5°C (212.9°F) Based on first boiling component: MMA "B" 180C (175°F) based on MEK	Flammability:	"A" Category 2, "B" Category 4
Flash Point:	"A" 10.6°C (51°F) T.C.C. based on MMA	Flammability Limits:	LEL: "A" 1.6, "B" - 1.8 UEL: "A" 12.5, "B" - 11.5
Specific Gravity:	"A" 1.053 @23°C (73°F), "B" 0.950 @23°C (73°F)	Vapour Pressure:	"A"-29 mm Hg @ 20°C (68°F)
Solubility:	"A" Slight in Water (MMA); "B" 27.5%/MEK @ 20°C (68°F)	Vapour Density:	"B"-71. mm Hg for MEK
Auto-ignition Temperature:	"A" 421°C (789.8°F): MMA, "B" 404°C (759°F): MEK	Other Data: Viscosity:	"A" > 3 Air = 1), "B" - N/E Thick syrupy liquid
Decomposition Temperature:	"A" - N/A, "B" - N/A		
VOC Content:	"A" ≤ 50 g/l mixed, "B" N/E		

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable
Hazardous decomposition products:	None in normal use. Oxides of carbon, oxides of nitrogen, hydrogen chloride, hydrocarbons, acrid smoke and toxic gases upon combustion.
Conditions to avoid:	Keep away from direct sunlight, heat, temperatures above 29°C (85°F), sparks, open flame and other ignition sources.
Incompatible Materials:	Reducing and oxidizing agents and metal contaminants

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicity:	LD ₅₀	LC ₅₀
Methyl Methacrylate Monomer (MMA)	Oral: 7900 mg/kg (rat), Dermal: >35000 mg/kg (rabbit)	Inhalation: 3 hrs. 7093 PPM (rat)
Methyl Ethyl Ketone (MEK)	Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)	Inhalation 8 hrs. 23,500 mg/m ³ (rat)
Benzoyl Peroxide paste in proprietary plasticizer	Oral: 6400 mg/kg (rat)	Oral: 2 mg/l 96 hours (guppy)

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 ≤ 50 g/l
Degradability:	Not Established
Bioaccumulation:	Not Established

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult local disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name:	Adhesives	AUSTRALIAN NTC-TRANSPORT OF DANGEROUS GOODS BY ROAD & RAIL
Hazard Class:	3	TDG CLASS: FLAMMABLE LIQUID 3
Secondary Risk:	None	SHIPPING NAME: Adhesives
Identification Number:	UN 1133	UN NUMBER/PACKING GROUP: UN 1133, PG II
Packing Group:	PG II	LIMITED QUANTITIES: 5 Liters
Label Required:	Class 3 Flammable Liquid	PACKINGS & IBCS
Marine Pollutant:	NO	PACKING INS P001, IBC02
AU Hazchem Code:	3YE	SPECIAL PACKING PROVISIONS: PP1: Up to 5L per inner packaging.
		PORTABLE TANKS & BULK CONTAINERS
		INSTRUCTIONS: T4
		SPECIAL PROVISIONS: TP1 & TP8
		USA DEPARTMENT OF TRANSPORTATION (DOT)
		DOT Limited Quantity: Up to 5L per inner packaging, 40 kg gross weight per package.
		Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D"

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information:	Highly Flammable, Irritant	Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia
Symbols:	F, Xi	AICS, Korea ECL/TCCL, Japan MITI (ENCS)
Risk Phrases:	R-11 Highly Flammable R-20 Harmful by inhalation R-21 Harmful if contact with skin R-22 Harmful if swallowed	R-36/37/38 Irritating to eyes, respiratory system and skin R-43 May cause sensitization by skin contact.
Safety Phrases:	S-2 Keep out of reach of children S-7 Keep container tightly closed when not in use S-9 Keep container in a well-ventilated place S-15/16 Keep away from heat and sources of ignition. No smoking S-23 Do not breathe vapor	S-24/25 Avoid contact with skin and eyes. S-29 Do not empty into drains S-37 Wear suitable gloves S-51 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
E-mail address:	<EHSinfo@ipscorp.com>	Directive on RoHS (Restriction of Hazardous Substances).
Training necessary:	Yes, training in practices and procedures contained in product literature.	
Reissue date / reason for reissue:	12/21/2017 Updated GHS Standard Format	
Intended Use of Product:	Reactive acrylic adhesive bonding/cementing plastics and other substrates Not recommended for use on PTFE, Silicone, Polypropylene, Polyethylene and other Polyolefin's or joints with an interference fit.	

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.