



GHS SAFETY DATA SHEET

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

Date Revised: **MAY 2020**
Supersedes: **APR 2019**

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WELD-ON® 810™ Low VOC 2-Component Adhesive Kit

PRODUCT USE: 2-Component Kit, Low VOC Adhesive 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.


RESTRICTIONS ON USE: Not recommended for use on PTFE, Silicone, Polypropylene, Polyethylene and other Polyolefin's or joints with an interference fit.

SUPPLIER: **MANUFACTURER:** IPS Corporation
17109 South Main Street, Gardena, CA 90248-3127
P.O. Box 379, Gardena, CA 90247-0379
Tel. 1-310-898-3300 E-mail address: EHSinfo@ipscorp.com

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
Acute Toxicity:	Category 2	Specific target organ toxicity (single exposure) Category 3	Acute Toxicity: Category 2
Skin Corrosion:	Category 2		Chronic Toxicity: Category 3
Skin Sensitization:	Category 1		Physical
Eye Damage / Irritation	Category 2	Organic peroxides Type B	Flammable Liquid: Category 2

GHS LABEL:   **Signal Word: Danger**

HAZARD STATEMENTS	PRECAUTIONARY STATEMENTS
H225: Highly flammable liquid and vapor	P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking
H241: Heating may cause a fire or explosion.	P233 + P403: Keep container tightly closed. Store in a well-ventilated place.
H315: Causes skin irritation.	P240 + P241: Ground/bond container and receiving equipment. Use explosion-proof equipment.
H317: May cause an allergic skin reaction.	P242 + P243: Use only non-sparking tools. Take precautionary measures against static discharge.
H335: May cause respiratory irritation.	P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
H402: Harmful to aquatic life	P270: Do not eat, drink or smoke when using this product.
	P273: Avoid release to the environment
	P280: Wear protective gloves/protective clothing/eye protection/face protection.
	P501: Dispose of contents/ container to an approved waste disposal plant.
RESPONSE STATEMENTS	
P301+310: IF SWALLOWED: Call a POISON CENTER and get Medical Attention	P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P331: Do NOT induce vomiting.	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	Remove contact lenses, if present and easy to do. Continue rinsing.
	P308+313: IF exposed or concerned: Get medical advice/attention.

Physical Hazards Not Otherwise Classified: May form explosive peroxides

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS	EINECS	REACH Registration Number	CONCENTRATION % by Weight
Component "A" (Base Resin)				
Methyl Methacrylate Monomer (MMA),* Stabilized	80-62-6	201-297-1	01-2119452498-28-0000	45 - 75
Component "B" (Catalyst-Initiator)				
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000	25 - 60
Benzoyl Peroxide (BPO)*	94-36-0	202-327-6	01-2119511472-50-0000	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: Do not induce vomiting. Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Seek medical advice immediately.

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, acid smoke and toxic gases.	Reactivity	2	3-Serious
Protection for Firefighters:	Self-contained breathing apparatus or full-face positive pressure air-supply masks.	PPE	B	4-Severe
				<i>Safety glasses, Gloves</i>

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	ACGIH	OSHA	OSHA	OSHA	CAL/OSHA	CAL/OSHA	CAL/OSHA
		8-hr TLV	15-min STEL	8-hr PEL	15 min STEL	PEL-Ceiling	8-hr PEL	Ceiling	15-min STEL
	Methyl Methacrylate Monomer	50 ppm	100 ppm	100 ppm	N/E	N/E	50 ppm	N/E	100 ppm
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm
	Benzoyl Peroxide	5 mg/m ³	N/E	5 mg/m ³	N/E	N/E	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.



GHS SAFETY DATA SHEET

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

Date Revised: **MAY 2020**
Supersedes: **APR 2019**

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	"A" White, viscous liquid; "B" Clear, syrupy liquid	Odor Threshold:	"A" 0.75 ppm (MMA) "B" 5.4 ppm (MEK)
Odor:	"A" Acrid odor, "B" Ketone	Evaporation Rate:	"A" > 1.0 (BUAC = 1), "B" < 1
P.H.:	Not Applicable	Flammability:	"A" Category 2, "B" Category 4
Boiling Point:	"A" -100.5°C (212.9°F) Based on first boiling component: MMA "B" 180°C (175°F) based on MEK	Flammability Limits:	LEL: "A" 1.6, "B" - 1.8 UEL: "A" 12.5, "B" - 11.5
Flash Point:	"A" 10.6°C (51°F) T.C.C. based on MMA	Vapor Pressure:	"A"-29 mm Hg @ 20°C (68°F) "B"-71. mm Hg for MEK
Specific Gravity:	"A" 1.053 @23°C (73°F), "B" 0.950 @23°C (73°F)	Vapor Density:	"A" > 3 (Air = 1), "B" - N/E
Solubility:	"A" Slight in Water (MMA); "B" 27.5%/MEK @ 20°C (68°F)	Other Data: Viscosity:	Thick syrupy liquid
Auto-ignition Temperature:	"A" 421°C (789.8°F); MMA, "B" 404°C (759°F); MEK		
Decomposition Temperature:	"A" - N/A, "B" - N/A		
VOC Content:	"A" ≤ 50 g/l mixed, "B" N/E		

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	Heating will start a fire.
Stability:	Stable, unless heated
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, sparks, open flame and other ignition sources.
Incompatible Materials:	Reducing and oxidizing agents and metal contaminants

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Inhalation, Eye and Skin Contact
Acute symptoms and effects:	Inhalation: Excessive exposure to vapors or spray mists can result in headache, dizziness, incoordination and loss of consciousness. Irritation of the eyes, nose, throat and lungs can also occur when exposed to high vapor concentrations. Some reports have associated repeated and prolonged occupational overexposure to solvents with permanent nervous system damage. 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. May cause defatting and irritation of skin (Dermatitis) upon prolonged or repeated contact. Ingestion: Swallowing can cause nausea, vomiting, diarrhea and loss of consciousness. (MMA) Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting (MEK): Low level chronic exposure has been shown to cause decreased memory and impairment of the central nervous system.
Chronic (long-term) effects:	(MMA) Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting (MEK): Low level chronic exposure has been shown to cause decreased memory and impairment of the central nervous system.
Health Hazards Not Otherwise Classified:	(MMA) Lachrymator (substance which increases the flow of tears). (MEK) This material may cause defatting and irritation of skin (Dermatitis) upon prolonged or
Respiratory or Skin Sensitization:	(MMA) May cause sensitization by skin contact. Irritating to eyes, respiratory system and skin

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

Carcinogenicity: IARC: Group 3: Not classifiable as to its carcinogenicity to humans

Toxicity:	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Methyl Methacrylate	7900 mg/kg (rat)	>35000 mg/kg (rabbit)	3 hrs. 7093 PPM (rat)
Methyl Ethyl Ketone	2737 mg/kg (rat)	6480 mg/kg (rabbit)	8 hrs. 23,500 mg/m3 (rat)
Benzoyl Peroxide	6400 mg/kg (rat)	No Data Available	2 mg/l 96 hours (guppy)

Acute Toxicity	Category 2
Calculated (ATEs)	Acute (Oral) Toxicity: Category 2 Acute (Dermal) Toxicity: Category 2 Acute (Inhalation) Toxicity: Category 2

Specific Target Exposure Toxicity (Single Exposure):	Methyl Methacrylate Methyl Ethyl Ketone Benzoyl Peroxide	Category	Route of Exposure	Affected Organs
		3	Inhalation	Respiratory system. Central Nervous System
		3	Inhalation	Irritations of mucous membranes in the mouth, pharynx, esophagus, and gastrointestinal tract. Mucosal irritations.
		3	Oral	
			Inhalation	

Specific Target Exposure Toxicity (Repeated Exposure): No Data Available

Aspiration Hazard: Based on available data, the classification criteria are not met.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Do not empty into drains. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Acute Aquatic Toxicity:	LC50	EC50	EC50
Pimephales promelas (fathead minnow); 96-hour		Daphnia magna (water flea); 48-hour	Pseudokirchneriella subcapitata 96-Hour
Methyl Methacrylate	125.5 - 275.0 mg/l	720 mg/l	170 mg/l
Methyl Ethyl Ketone	> 100 mg/L	> 100 mg/L	2,029 mg/l
Benzoyl Peroxide	0.06 mg/l	0.11 mg/l	0.0711 mg/l (72-hour)

Mobility in Soil: If released into the environment, this product can move rapidly through the soil.

Degradability: (MMA) Result: > 95 % - Readily biodegradable.

Bioaccumulation: Does not bioaccumulate.

Results of PBT and vPvB assessment: PBT: Not applicable. vPvB: Not applicable

Other adverse effects: Harmful to aquatic life

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Dispose of waste and containers in compliance with applicable Federal, State, and Local Regulations. Consult disposal expert. Do not reuse empty containers.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name:	Adhesives	EXCEPTION for Ground Shipping
Hazard Class:	3	
Secondary Risk	None	DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package.
Identification Number:	UN 1133	Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as ORM-D
Packing Group:	PG II	TDG INFORMATION
Label Required:	Class 3 Flammable Liquid	TDG CLASS: FLAMMABLE LIQUID 3
Marine Pollutant:	NO	SHIPPING NAME: ADHESIVES
		UN NUMBER/PACKING GROUP: UN 1133, PG II

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information:	Highly Flammable, Irritant	Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)
Symbols:	F, Xi	
Compliance Statement:	This SDS was prepared to be in accordance with: US OSHA Hazard Communication Standard 29 CFR 1910.1200 (Rev 2012) Canadian Workplace Hazardous Materials Information System (WHMIS) 2015 European Regulation (EC) No (EU) 2015/830 on classification, labelling and packaging of substances and mixtures	

SECTION 16 - OTHER INFORMATION

Specification Information:	
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 product literature.
Reissue date / reason for reissue:	5/1/2020 / 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.