GHS SAFETY DATA SHEET

WELD-ON® 811™ Low VOC 2-Component Adhesive

Date Revised: **JAN 2013**
Supersedes: **DEC 2011**

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **WELD-ON® 811™ Low VOC 2-Component Adhesive**

PRODUCT USE: 2-Component Cartridge, 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:

MANUFACTURER: IPS Corporation
600 Ellis Road, Durham,NC 27703 - USA
P.O. Box 12729, Research Triangle Park, NC 27709 - USA
Tel. 1-919-598-2400

EMERGENCY: Transportation: CHEMTEL Tel. 800.255-3924, 813-248-0585 (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:	Category III	Flammable Liquid:	Category 2
Skin Corrosion:	Category 3	Chronic Toxicity:	Category IV		
Skin Sensitization:	YES				
Eye:	Category 2B				

GHS LABEL: **OR**

Signal Word: **Danger**

WHMIS CLASSIFICATION: CLASS B, DIVISION 2
CONTROLLED PRODUCT CLASS D, DIVISION 2B

Hazard Statements		Precautionary Statements		
Highly flammable liquid and vapor	May cause irritation/allergic skin reaction	Do not breathe vapor	Keep container closed	Use in well-ventilated area

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	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)				
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.

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: Inhalation and dermal contact
Combustion Products: Oxides of carbon, oxides of nitrogen, hydrogen chloride hydrocarbons, acrid smoke and toxic gases.
Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure air-supply masks.

	HMIS	NFPA	
Health	2	2	1-Slight
Flammability	3	3	2-Moderate
Reactivity	2	2	3-Serious
PPE	B		4-Severe

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep away from heat, sparks and open flame.
Provide sufficient ventilation, use explosion-proof exhaust ventilation eqiuipment 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
Methyl Methacrylate Monomer	50 ppm	100 ppm	100 ppm	N/E
Benzoyl Peroxide	5 mg/m^3		5 mg/m^3	

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.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	"A" White, viscous liquid; "B" Clear, viscous liquid		
Odor:	"A" Acrid Odor, "B" Mild	**Odor Threshold:**	"A" 0.75 ppm: MMA, "B" Slight
P.H.:	Not Applicable		
Boiling Point:	"A" -100.5°C (212.9°F) Based on first boiling component: MMA "B" Decomposes	**Evaporation Rate:**	"A" > 1.0 (BUAC = 1), "B" >1
		Flammability:	"A" Category 2, "B" Category 4
Flash Point:	"A" 10.6°C (51°F) T.C.C. for MMA, "B" 84°C (184°F) for BPO	**Flammability Limits:**	**LEL:** "A" - 1.6, "B" N/E
Specific Gravity:	"A" 1.05 @23°C (73°F), "B" 1.00 @23°C (73°F)		**UEL:** "A" - 12.5, "B" N/E
Solubility:	"A" Slight in Water (MMA), "B" Insoluble in Water	**Vapour Pressure:**	"A" 29 mm Hg @ 20°C (68°F): MMA
Auto-ignition Temperature:	"A" 421°C (789.8°F): MMA, "B": Not Established	**Vapour Density:**	"A" - >3 (Air = 1), "B" - N/E
Decomposition Temperature:	"A"Not Applicable, "B" 37°C (98°F)	**Other Data: Viscosity:**	Thick syrupy liquid
VOC Content:	"A" or "B"- ≤ 50 g/l mixed		

SECTION 10 - STABILITY AND REACTIVITY

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: 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: None known to humans

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)
Benzoyl Peroxide	Oral: 6400 mg/kg (rat)	Oral: 2 mg/l 96 hours (guppy)

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotyxicity	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
Hazard Class: 3
Secondary Risk: None
Identification Number: UN 1133
Packing Group: PG II
Label Required: Class 3 Flammable Liquid
Marine Pollutant: NO

EXCEPTION for Ground Shipping
DOT Limited Quantity: Up to 5L 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:	FLAMMABLE LIQUID 3
SHIPPING NAME:	ADHESIVES
UN NUMBER/PACKING GROUP:	UN 1133, PG II

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant

Symbols: F, Xi

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia 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

E-mail address: <EHSinfo@ipscorp.com>

All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).

Training necessary: Yes, training in practices and procedures contained in product literature.

Reissue date / reason for reissue: 1/14/2013 / 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.