



GHS SAFETY DATA SHEET

Date Revised: APR 2015
Supersedes: NOV 2014

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

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.
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, +1 813-248-0585 (International) **Medical:** CHEMTEL Tel. 800.255-3924, +1 813-248-0585 (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

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

GHS LABEL:



Signal Word:
Danger

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

| 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: None known to humans

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 | 0-Minimal |
| Flammability | 3 | 3 | 1-Slight |
| Reactivity | 2 | 2 | 2-Moderate |
| PPE | B | | 3-Serious |
| | | | 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 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 | OSHA PEL-Ceiling | CAL/OSHA PEL | CAL/OSHA Ceiling | CAL/OSHA 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.



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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 | Vapour 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) | Vapour 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

| | |
|--|---|
| 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 Not Established | Teratogenicity Not Established | Mutagenicity Not Established | Embryotoxicity Not Established | Sensitization to Product Not Established | Synergistic Products 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 | Ingredient Listings: | USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS) |
| Symbols: | F, Xi | | |
| 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

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|---|--|--|
| 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: | 4/21/2015 / 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.