

#### **GHS SAFETY DATA SHEET**

WELD-ON® 845™ Low VOC 2-Component Adhesive

Date Revised: APR 2015 Supersedes: NOV 2014

### SECTION I - PRODUCT AND COMPANY IDENTIFICATION

WELD-ON® 845™ Low VOC 2-Component Adhesive PRODUCT NAME:

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, +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 Corrosion: Category 3 Chronic Toxicity Category IV YES Skin Sensitization:

GHS LABEL:

Eve

Category 2B

Signal Word: Dangei

WHMIS CLASSIFICATION: CONTROLLED PRODUCT

CLASS B DIVISION 2 CLASS D, DIVISION 2B

Precautionary Statements **Hazard Statements** H-225 Highly flammable liquid and vapo 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

CONCENTRATION CAS# EINECS # Component "A" (Base Resin) Pre-registration Number % by Weight Methyl Methacrylate Monomer (MMA),\* Stabilized Component "B" (Catalyst-Initiator) 201-297-1 05-2116297731-37-0000 80-62-6 45 - 65 Benzoyl Peroxide (BPO)\* 94-36-0 202-327-6 05-2116297715-31-0000 1 - 10

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.

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Skin contact: 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. Eve 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.

Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact. Skin 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. HMIS NFPA 0-Minimal Unsuitable Extinguishing Media: Water spray or stream Health 1-Slight 2 2 Exposure Hazards: Flammability Inhalation and dermal contact 3 2-Moderate **Combustion Products** Oxides of carbon, oxides of nitrogen, hydrocarbons, 3-Serious Reactivity В acrid smoke and toxic gases and phosphorus compounds PPF 4-Severe Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure air-supply masks

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Keep away from heat, sparks and open flame. Personal precautions:

Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.

Prevent contact with skin or eyes (see section 8).

Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course **Environmental Precautions:** 

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**

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
	Benzoyl Peroxide	5 mg/m <sup>3</sup>		5 mg/m <sup>3</sup>	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.

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. Respiratory Protection:

When limits approached, use respiratory protection equipment.



#### **GHS SAFETY DATA SHEET**

WELD-ON® 845™ Low VOC 2-Component Adhesive

Odor Threshold:

Evaporation Rate:

Flammability Limits:

Other Data: Viscosity:

Vapour Pressure:

Vapour Density:

**EXCEPTION** for Ground Shipping

TDG INFORMATION

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

R-43 May cause sensitization by skin contact

S-24/25 Avoid contact with skin and eyes.

S-29 Do not empty into drains S-37 Wear suitable gloves

AICS, Korea ECL/TCCL, Japan MITI (ENCS)

R-36/37/38 Irritating to eyes, respiratory system and skin

Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D"

ELAMMARI E LIQUID 3

All ingredients are compliant with the requirements of the European

ADHESIVES

DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package

Flammability:

Date Revised: APR 2015 Supersedes: NOV 2014

"A" 0.75 ppm: MMA, "B" Slight

"A" > 1.0 (BUAC = 1), "B" >1 "A" Category 2, "B" Category 4 LEL: "A" - 1.6, "B" N/E

"A" 29 mm Hg @ 20°C (68°F): MMA
"A" ->3 (Air = 1), "B" - N/E

UEL: "A" - 12.5, "B" N/E

Thick syrupy liquid

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES** 

Appearance "A" White, viscous liquid; "A" Acrid Odor, "B" Mild "B" Clear, viscous liquid

Odor: P.H.: Not Applicable

**Boiling Point:** "A" -100.5°C (212.9°F) Based on first boiling component: MMA

"B" Decomposes

"A" 10.6°C (51°F) T.C.C. for MMA, "B" 84°C (184°F) for BPO
"A" 1.05 @23°C (73°F), "B" 1.00 @23°C (73°F)
"A" Slight in Water (MMA), "B" Insoluble in Water
"A" 421°C (789.8°F); MMA, "B"; Not Established Flash Point: Specific Gravity:

Solubility: Auto-ignition Temperature:

"A"Not Applicable, "B" 37°C (98°F) Decomposition Temperature:

"A" or "B"- ≤ 50 g/I mixed VOC Content:

**SECTION 10 - STABILITY AND REACTIVITY** Stability: Stable, unless heated

None in normal use. Oxides of carbon, oxides of nitrogen, hydrocarbons, Hazardous decomposition products:

acrid smoke and toxic gases and phosphorus compounds

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

LC<sub>50</sub> Toxicity: LD<sub>50</sub>

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 Sensitization to Product Synergistic Products **Teratogenicity** Mutagenicity Embryotyxicity 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:

Secondary Risk: None Identification Number: UN 1133

Packing Group: PG II

Class 3 Flammable Liquid Label Required:

Marine Pollutant NO

SHIPPING NAME

UN NUMBER/PACKING GROUP:

UN 1133, PG II

**SECTION 15 - REGULATORY INFORMATION** Highly Flammable, Irritant

Precautionary Label Information: Symbols: F. Xi

R-11 Highly Flammable Risk Phrases:

R-20 Harmful by inhalation

R-21 Harmful if contact with skin R-22 Harmful if swallowed

S-2 Keep out of reach of children Safety Phrases:

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-51 Use only in well ventilated areas

S-23 Do not breathe vapor

SECTION 16 - OTHER INFORMATION

Specification Information:

Department issuing data sheet:

E-mail address:

Training necessary:

Reissue date / reason for reissue: Intended Use of Product:

IPS, Safety Health & Environmental Affairs < EHSinfo@ipscorp.com

Directive on RoHS (Restriction of Hazardous Substances) Yes, training in practices and procedures contained in product literature 4/21/2015 / Updated GHS Standard Format

TDG CLASS

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.

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