SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WELD-ON® 717™ Low VOC Cements for PVC Plastic Pipe

PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Pipe

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: Category 4
Skin Irritation: Category 3
Skin Sensitization: NO
Eye: Category 2

Physical: Category 2

GHS LABEL:

Signal Word: Danger
WHMIS CLASSIFICATION: CLASS B, DIVISION 2

Hazard Statements

Precautionary Statements

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

CAS# ERCES # REACH CONCENTRATION

Pre-registration Number % by Weight

Tetrahydrofuran (THF) 108-99-9 203-726-8 05-2116297729-22-0000 25 - 70
Methyl Ethyl Ketone (MEK) 78-93-3 201-159-0 05-2116297729-24-0000 5 - 36
Cyclohexanone 108-94-1 203-631-1 05-2116297718-25-0000 10 - 25

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).

SECTION 5 - FIREFIGHTING MEASURES

Unsuitable Extinguishing Media: Any chemical powder, carbon dioxide gas, foam, Halon, water fog.

Suitable Extinguishing Media: Water spray or stream.

Combustion Products: Oxides of carbon, hydrogen chloride and smoke

Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

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

Methods for Cleaning up: Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel.

Materials not to be used for clean up: Aluminum or plastic containers

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing.

Storage: Store in ventilated room or shade below 44°F (110°F) and away from direct sunlight.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

Exposure Limits:

Component ACOSH TLV ACOSH STEL OSHA PEL OSHA PEL Ceiling CAL/OSHA PEL CAL/OSHA Ceiling CAL/OSHA STEL

Tetrahydrofuran (THF) 50 ppm 100 ppm 200 ppm N/E N/E 250 ppm N/E
Methyl Ethyl Ketone (MEK) 200 ppm 300 ppm 200 ppm N/E N/E 200 ppm N/E
Cyclohexanone 20 ppm 50 ppm 50 ppm N/E N/E 25 ppm 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 splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure.

Skin Protection: Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion.

Respiratory Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. 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:** Gray or clear, heavy syrupy liquid
- **Odor:** Ketone
- **Odor Threshold:** 0.88 ppm (Cyclohexanone)
- **pH:** Not Applicable
- **Melting/Freezing Point:** -108.5°C (-163.3°F) Based on first melting component: THF
- **Boiling Point:** 66°C (151°F) Based on first boiling component: THF
- **Flash Point:** -20°C (-4°F) TCC based on THF
- **Specific Gravity:** 0.963 @ 23°C (73°F)
- **Solubility:** Solvent portion soluble in water. Resin portion separates out.
- **Partition Coefficient n-octanol/water:** Not Available
- **Auto-ignition Temperature:** 321°C (610°F) based on THF
- **Decomposition Temperature:** Not Applicable
- **VOC Content:** When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: < 510 g/l.

### SECTION 10 - STABILITY AND REACTIVITY

- **Stability:** Stable
- **Hazardous decomposition products:** None in normal use. When forced to burn, this product gives off oxides of carbon, hydrogen chloride and smoke.
- **Conditions to avoid:** Keep away from heat, sparks, open flame and other ignition sources.
- **Incompatible Materials:** Oxidizers, strong acids and bases, amines, ammonia

### SECTION 11 - TOXICOLOGICAL INFORMATION

- **Toxicity:**
  - **LD50:** Oral: 2642 mg/kg (rat)  Inhalation: 3 hrs. 21,000 mg/m³ (rat)
  - **LC50:** Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)  Inhalation 8 hrs. 23,500 mg/m³ (rat)
  - **Tetrahydrofuran (THF):** Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit)  Inhalation 4 hrs. 8,000 PPM (rat)

- **Reproductive Effects:** Not Established
- **Teratogenicity:** Not Established
- **Mutagenicity:** Not Established
- **Embryotoxicity:** Not Established
- **Sensitization to Product:** Not Established
- **Synergistic Products:**
  - **Hazard Class:** 2
  - **UN Number/Packing Group:** UN 1133, PG II
  - **Hazard Class:** 3
  - **UN Number/Packing Group:** UN 1133, PG II

### 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 < 510 g/l.
- **Biodegradability:** Minimal to none.
- **Bioaccumulation:** Minimal
- **Mobility:** Minimal
- **Ecotoxicity:** None Known

### SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

### SECTION 14 - TRANSPORT INFORMATION

- **Proper Shipping Name:** Adhesives
- **Secondary Risk:** None
- **Identification Number:** UN 1133
- **Label Required:** Class 3 Flammable Liquid
- **Marine Pollutant:** NO

### SECTION 15 - REGULATORY INFORMATION

- **Precautionary Label Information:**
  - **Hazard Class:** 3
  - **UN Number/Packing Group:** UN 1133, PG II
  - **TDG INFORMATION:**
    - **Flammable Liquid 3**
    - **SHIPPING NAME:** Adhesives
    - **UN NUMBER/PACKING GROUP:** UN 1133, PG II

- **Symbol:** F, Xi
- **Risk Phrases:**
  - **R11:** Highly flammable.
  - **R20:** Harmful by inhalation.
  - **R26:** Irritating to eyes and respiratory system.
  - **R36/37:** Irritating to eyes and respiratory system.
  - **R66:** Repeated exposure may cause skin dryness or cracking
  - **R67:** Vapors may cause drowsiness and dizziness

- **Safety Phrases:**
  - **S9:** Keep container in a well-ventilated place.
  - **S16:** Keep away from sources of ignition - No smoking.
  - **S25:** Avoid contact with eyes.
  - **S33:** Take precautionary measures against static discharges.
  - **S46:** If swallowed, seek medical advice immediately and show this container or label.
  - **S47:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### 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 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:** 4/20/2016 / Updated GHS Standard Format
  - **Intended Use of Product:** Solvent Cement for PVC Plastic Pipe

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.