SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Weld-On® 721™ Low VOC Cement for PVC Plastic Pipe
PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Pipe
SUPPLIER: IPS Corporation
MANUFACTURER: IPS Corporation

EMERGENCY: Transportation: CHEMTEL Tel. 800-255-3924, +1 813-248-5585 (International)
Medical: CHEMTEL Tel. 800-255-3924, +1 813-248-5585 (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:
Acute Toxicity: Health Category 3
Skin Sensitization: Category 2
Eye: Category 2

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

Hazard Statements:
P101: Keep away from heat/sparks/open flames/s对照生词/soil vents.
P301+P313: Get medical advice/attention

Precautionary Statements:
P261: Avoid breathing dust/fume/gas/mist/vapors/spray

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

CAS#  EINECS#  REACH Pre-registration Number CONCENTRATION % by Weight

Tetrahydrofuran (THF) 109-99-9 203-728-8 05-211697729-22-0000 40 - 55
Methyl Ethyl Ketone (MEK) 78-93-3 201-159-0 05-211697728-24-0000 5 - 15
Cyclohexanone 108-94-1 203-631-1 05-211697718-25-0000 10 - 20
Acetone 67-64-1 200-662-2 05-211697713-35-0000 3 - 15

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.
Combustion Products: Oxides of carbon, hydrogen chloride and smoke

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.

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

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:

<table>
<thead>
<tr>
<th>Component</th>
<th>ACOSH TLV</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>OSHA STEL</th>
<th>CAL/OSHA PEL/Ceiling</th>
<th>CAL/OSHA STEL</th>
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</thead>
<tbody>
<tr>
<td>Tetrahydrofuran (THF)</td>
<td>50 ppm</td>
<td>150 ppm</td>
<td>200 ppm</td>
<td>N/E</td>
<td>N/E</td>
<td>N/E</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone (MEK)</td>
<td>200 ppm</td>
<td>300 ppm</td>
<td>200 ppm</td>
<td>N/E</td>
<td>N/E</td>
<td>N/E</td>
</tr>
<tr>
<td>Cyclohexanone</td>
<td>20 ppm</td>
<td>50 ppm</td>
<td>50 ppm</td>
<td>N/E</td>
<td>N/E</td>
<td>N/E</td>
</tr>
<tr>
<td>Acetone</td>
<td>500 ppm</td>
<td>750 ppm</td>
<td>1000 ppm</td>
<td>N/E</td>
<td>N/E</td>
<td>N/E</td>
</tr>
</tbody>
</table>

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. 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: Prevent inhalation of the solvent. Use in a well-ventilated room. Open doors and windows to ensure air circulation. 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 protective equipment.

Supersedes: NOV 2014
APR 2015

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 9 - PHYSICAL AND CHEMICAL PROPERTIES
Appearance: Blue, medium syrupy liquid
Odor: Ketone
pH: Not Applicable
Melting/Freezing Point: -108.5°C (-163.3°F) Based on first melting component: THF
Boiling Point: 56°C (133°F) Based on first boiling component: Acetone
Flash Point: -20°C (4°F) TCC based on Acetone
Specific Gravity: 0.955 @23°C (72°F)
Solubility: Solvent portion soluble in water. Resin portion separates out.
Partition Coefficient n-octanol/water: Not Available
Evaporation Rate: 321°C (610°F) based on THF
Inhalation 8 hrs. 23,500 mg/m³
Solvent Cement for PVC Plastic Pipe
LEL:
Ketone
When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is:
Solvent portion soluble in water. Resin portion separates out.
Flammability Limits:
Not Applicable
Directive on RoHS (Restriction of Hazardous Substances).
Yes, training in practices and procedures contained in product literature.
Not Established
Oral: 2842 mg/kg (rat)
Highly Flammable, Irritant, Carc. Cat. 2
>2.0 (Air = 1)
S33: Take precautionary measures against static discharges.
190 mm Hg @ 20°C (68°F) Acetone
Not Applicable
Other Data: Viscosity: Medium boiled
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:
Hazardous decomposition products:
Conditions to avoid:
Incompatible Materials:
Oxidizers, strong acids and bases, amines, ammonia
SECTION 11 - TOXICOLOGICAL INFORMATION
Toxicity:
Methyl Ethyl Ketone (MEK)
Cyclohexanone
Acetone

<table>
<thead>
<tr>
<th>Reproductive Effects</th>
<th>Teratogenicity</th>
<th>Mutagenicity</th>
<th>Embryotoxicity</th>
<th>Sensitization to Product</th>
<th>Synergistic Products</th>
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<tbody>
<tr>
<td>Not Established</td>
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<td>Not Established</td>
<td>Not Established</td>
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</table>

Target Organs
LD₅₀ Target Organs

<table>
<thead>
<tr>
<th>Tetrahydrofuran (THF)</th>
<th>Ora: 2842 mg/kg (rat)</th>
<th>Inhalation 3 hrs. 21,000 mg/m³ (rat)</th>
<th>STOT SE3</th>
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</thead>
<tbody>
<tr>
<td>Methyl Ethyl Ketone (MEK)</td>
<td>Ora: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)</td>
<td>Inhalation 8 hrs. 23,500 mg/m³ (rat)</td>
<td>STOT SE3</td>
</tr>
<tr>
<td>Cyclohexanone</td>
<td>Ora: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit)</td>
<td>Inhalation 4 hrs. 8,000 PPM (rat)</td>
<td>STOT SE3</td>
</tr>
<tr>
<td>Acetone</td>
<td>Ora: 5900 mg/kg (rat)</td>
<td>Inhalation 50,100 mg/m³ (rat)</td>
<td>STOT SE3</td>
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</tbody>
</table>

SECTION 12 - ECOCLOGICAL INFORMATION
Ecotoxicity: None Known
Bioaccumulation: Minimal to none.

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS
Follow local and national regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION
Proper Shipping Name: Adhesives
Hazard Class: 3
Secondary Risk:
Identification Number: UN 1133
Packing Group: PG II
Label Required: Class 3 Flammable Liquid
Marine Pollutant: NO

<table>
<thead>
<tr>
<th>TDG INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG CLASS:</td>
</tr>
<tr>
<td>SHIPPING NAME:</td>
</tr>
<tr>
<td>UN NUMBER/PACKING GROUP:</td>
</tr>
</tbody>
</table>

SECTION 15 - REGULATORY INFORMATION
Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2 Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia
Symbols: F, Xi
Risk Phrases:
R11: Highly flammable
R66: Repeated exposure may cause skin dryness or cracking
R36/37: Irritating to eyes and respiratory system.
R67: Vapors may cause drowsiness and dizziness
Safety Phrases:
S2: Keep out of the reach of children
S25: Avoid contact with eyes.
S9: Keep container in a well-ventilated place.
S24: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S16: Keep away from sources of ignition - No smoking.
S33: Take precautionary measures against static discharges.

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 EEC Directives on RoHS (Restriction of Hazardous Substances).
E-mail address: <EHSInfo@ipscorep.com>
Training necessary: Yes, training in practices and procedures contained in product literature.
Reissue date / reason for reissue: 4/20/2015 / 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.