SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: IPS CORPORATION
PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Pipe
SUPPLIER: IPS Corporation
MANUFACTURER: 17109 South Main Street, Gardena, CA 90248-3127

SECTION II - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

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

Acute Toxicity: None Known
Chronic Toxicity: None Known

Flammable Liquid: Category 2

WINRS CLASSIFICATION: CLASS B; DIVISION 2

GHS LABEL:

Signal Word: Danger

Precautionary Statements

Respiratory Protection:
EUH019: May form explosive peroxides
H351: Suspected of causing cancer
H336: May cause drowsiness or dizziness
H335: May cause respiratory irritation
H332: Harmful if inhaled
H319: Causes serious eye irritation
H225: Highly flammable liquid and vapor

Skin 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.

Personal Protective Equipment (PPE):

Respiratory Protection:
Prevent inhalation of the solvents. Use in a well-ventilated area. Open doors and 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 approach, use respiratory protection equipment.

Combustion Products:
Acetone
Cyclohexanone
Methyl Ethyl Ketone (MEK)
Tetrahydrofuran (THF)

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

Suitable Extinguishing Media:
Water stream, dry chemical powder, carbon dioxide gas, foam, Halon, water fog.

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
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<th>CAS#</th>
<th>ENERG#</th>
<th>REACH</th>
<th>CONCENTRATION</th>
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<td>109-99-9</td>
<td>203-726-8</td>
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<td>78-93-3</td>
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<td>108-94-1</td>
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<tr>
<td>67-64-1</td>
<td>200-662-2</td>
<td>200 ppm</td>
<td>0-20</td>
</tr>
</tbody>
</table>

GHS SAFETY DATA SHEET

SECTION V - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.

UNCLASSIFIED: None

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

SECTION VI - 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 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 VII - 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.

Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.

Follow all precautionary information on container label, product bulletins and solvent cementing literature.

SECTION VIII - 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
--- | --- | --- | --- | --- | --- | --- | ---
Tetrahydrofuran (THF) | 50 ppm | 100 ppm | 200 ppm | 200 ppm | N/E | N/E | N/E
Methyl Ethyl Ketone (MEK) | 200 ppm | 300 ppm | 200 ppm | N/E | N/E | N/E | N/E
Cyclohexanone | 20 ppm | 50 ppm | 50 ppm | 50 ppm | N/E | N/E | N/E
Acetone | 500 ppm | 750 ppm | 1000 ppm | 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 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 solvents. Use in a well-ventilated area. Open doors and 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 approach, use respiratory protection equipment.
GHS SAFETY DATA SHEET

WELD-ON® 704™ Low VOC PVC Plastic Pipe Cement

Date Revised: APR 2015
Supersedes: NOV 2014

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear or gray, 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: 0.500 (82°F) (79°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
Vapor Pressure: 190 mm Hg @ 20°C (68°F) Acetone
Vapor Density: Not Available
Evaporation Rate: > 1.0 (BUAC = 1)

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:
- Acetone: LC50 Oral: 2842 mg/kg (rat)
- Cyclohexanone: LC50 Oral: 2737 mg/kg (rat)
- Methyl Ethyl Ketone (MEK): LC50 Oral: 6480 mg/kg (rabbit)
- Tetrahydrofuran (THF): LC50 Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit)

LD50 Oral: 5800 mg/kg (rat)
LD50 Inh: 23,500 mg/m³ (rat)
LD50 Inh: 8,000 PPM (rat)
LD50 Inh: 21,000 mg/m³ (rat)

Inhalation 50,100 mg/m³ (rat)
Inhalation 3 hrs. 21,000 mg/m³ (rat)
Inhalation 4 hrs. 8,000 PPM (rat)
Inhalation 8 hrs. 33,500 mg/m³ (rat)
Inhalation 4 hrs. 100,000 mg/m³ (rat)

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 ≤ 510 g/t.
Degradability: Not readily biodegradable
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
DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package.
Secondary Risk: None
Identification Number: UN 1133
Packing Group: PG II
Label Required: Class 3 Flammable Liquid
Marine Pollutant: NO

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant, Corr. Cat. 2
Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECLI/TCCL, Japan MITI (ENCS)
Symbols: F, Xi
Safety Phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33: Take precautions against static discharges.
S36: In case of contact, wash with soap and water.
S37: If swallowed, seek medical advice immediately and show this container or label.

SECTION 16 - OTHER INFORMATION

Specification Information:
- Department issuing data sheet: IPS, Safety Health & Environmental Affairs
- E-mail address: <EHSinfo@ipsccorp.com>
- All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).
- Yes, training in practices and procedures contained in product literature.
- 4/20/2015 / Updated GHS Standard Format
- The 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.