# TYCO CPVC
## TFP-500 One Step Solvent Cement SDS (Safety Data Sheet)

**Tyco**

**GHS SAFETY DATA SHEET**

**TFP-500 RED Low VOC Cement for CPVC Plastic Pipe**

**DATE REVISED:** JAN 2015  
**SUPERSEDED:** JUN 2013

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** TFP-500 RED Low VOC Cement for CPVC Plastic Pipe  
**PRODUCT USE:** Low VOC Solvent Cement for CPVC Plastic Pipe  
**MANUFACTURER:** IPS Corporation  
1710 South Main Street, Gardena, CA 90248-3127  
P.O. Box 379, Gardena, CA 90247-0379  
Tel: 1-310-898-3300  
Medical CHEMTEL Tel: 002.255.3202, +1 813-248-0585 (International)

## SECTION 2 - HAZARDS IDENTIFICATION

**GHS CLASSIFICATION:**

<table>
<thead>
<tr>
<th>Health</th>
<th>Environmental</th>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity: Category 4</td>
<td>Acute Toxicity: None Known</td>
<td>Flammable Liquid: Category 2</td>
</tr>
<tr>
<td>Skin Irritation: Category 3</td>
<td>Chronic Toxicity: None Known</td>
<td></td>
</tr>
<tr>
<td>Skin Sensitization: NO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eye: Category 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WHMS CLASSIFICATION:** CLASS B, DIVISION 2  
CLASS D, DIVISION 2B

### Hazard Statements

- H225: Highly flammable liquid and vapor
- H319: Causes serious eye irritation
- H335: May cause respiratory irritation
- H336: May cause drowsiness or dizziness
- H351: Suspected of causing cancer

### Precautionary Statements

- P261: Avoid breathing dusts/gases/vapors/ mists  
- P262: Wash hands after handling and before eating, drinking, or smoking
- P281: Wear protective clothes and eye protection/face protection
- P305+P351+P338: If exposed or overexposure may occur: Get medical advice/attention
- P403+P233: Store in a well ventilated place. Keeps container tightly closed

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS#</th>
<th>EINECS #</th>
<th>REACH Pre-registration Number</th>
<th>CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>109-99-9</td>
<td>203-728-8</td>
<td>05-2116297728-22-0000</td>
<td>30 - 70</td>
</tr>
<tr>
<td>78-03-3</td>
<td>201-150-0</td>
<td>05-2116297728-24-0000</td>
<td>2 - 25</td>
</tr>
<tr>
<td>67-64-1</td>
<td>200-662-2</td>
<td>05-2116297713-35-0000</td>
<td>5 - 15</td>
</tr>
<tr>
<td>106-94-1</td>
<td>203-631-1</td>
<td>05-2116297718-25-0000</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

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 that 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 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 from air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.

### Ingestion:
Give milk of magnesia. 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

**Exposure Hazards:** Inhalation and dermal contact

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

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

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

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

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

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

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TFP-500 RED Low VOC Camont for CPVC Plastic Pipe

Date Revised: JAN 2016
Supersedes: JUN 2013

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 and flameproof exhaust hoods.
Do not eat, drink or smoke while handling.
Storage: Store in ventilated room or shade below 33°C (91°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 precautions in handling container, label, product bulletin and solvent cementing literature.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGH TLV</th>
<th>ACGH STEL</th>
<th>OSHA PEL</th>
<th>OSHA STEL</th>
<th>EU HEEL</th>
<th>CAL OSHA PEL</th>
<th>CAL OSHA STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrahydrofuran (THF)</td>
<td>50 ppm</td>
<td>150 ppm</td>
<td>200 ppm</td>
<td>NIE</td>
<td>NIE</td>
<td>200 ppm</td>
<td>NIE</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone (MEK)</td>
<td>200 ppm</td>
<td>300 ppm</td>
<td>200 ppm</td>
<td>NIE</td>
<td>NIE</td>
<td>200 ppm</td>
<td>NIE</td>
</tr>
<tr>
<td>Acetone</td>
<td>500 ppm</td>
<td>750 ppm</td>
<td>1000 ppm</td>
<td>NIE</td>
<td>NIE</td>
<td>500 ppm</td>
<td>NIE</td>
</tr>
<tr>
<td>Cyclohexanone</td>
<td>20 ppm</td>
<td>50 ppm</td>
<td>50 ppm</td>
<td>NIE</td>
<td>NIE</td>
<td>20 ppm</td>
<td>NIE</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.
Respiratory Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. 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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES
Appearance: Orange or gray, heavy syrupy liquid
Odor: Ketonic
pH: Not Applicable
Melting/Freezing Point: -16.9°C (-2.8°F) based on first melting component: THF
Boiling Point: 62°C (144°F) based on first boiling component: THF
Flash Point: -26°C (-2°F) closed cup based on THF
Specific Gravity: 0.989 @20°C (70°F)
Solubility: Solvent portion soluble in water. Resin portion separates out.
Partition Coefficient n-octanol/water: Not Available
Auto-Ignition Temperature: >271°C (520°F) based on THF
Decomposition Temperature: Not Applicable
VOC Content: When applied as directed, per SCAQMD Rule 1160, Total Test Method 316A VOC content is ≤ 400 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
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: Category 2 Carcinogen
Toxicity:

<table>
<thead>
<tr>
<th>Component</th>
<th>LC50</th>
<th>Target Organ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrahydrofuran (THF)</td>
<td>LLD of 1 ppm</td>
<td>STOT SE3</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone (MEK)</td>
<td>LD50 of 518 mg/kg (rat)</td>
<td>STOT SE3</td>
</tr>
<tr>
<td>Acetone</td>
<td>LD50 of 1100 mg/kg (rat)</td>
<td>STOT SE2</td>
</tr>
<tr>
<td>Cyclohexanone</td>
<td>LD50 of 1500 mg/kg (rat)</td>
<td>STOT SE3</td>
</tr>
</tbody>
</table>

Reproductive Effects: Not Established
Teratogenicity: Not Established
Mutagenicity: Not Established
Embryotoxicity: Not Established
Sensitization to Product: Not Established
Supersensitive: Not Established

SECTION 12 - ECOLOGICAL INFORMATION
Biodegradability: None Known
Mobility: None
Toxicity: None
Persistence: None
Bioaccumulation: 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: None
Identification Number: UN 1133
Packaging Group: PG II
Label Required: Class 3 Flammable Liquid
Marine Pollutant: NO

Sections 7-14 excerpt from: Filename: TFP-500 RED LcVoc 1-15.xls
**SECTION 15 - REGULATORY INFORMATION**

<table>
<thead>
<tr>
<th>Precautionary Label Information</th>
<th>Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECU/10CGL, Japan MITI (ENCIS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F, Xi</td>
<td>R11: Highly flammable. R36/37: Irritating to eyes and respiratory system. R67: Vapors may cause drowsiness and dizziness</td>
</tr>
<tr>
<td>Ranges:</td>
<td>R69: Repeated exposure may cause skin dryness or cracking. S25: Avoid contact with eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S33: Take precautionary measures against static discharges.</td>
</tr>
</tbody>
</table>

**SECTION 16 - OTHER INFORMATION**

- **Specification Information**: Safety Health & Environmental Affairs, Directive on RoHS (Restriction of Hazardous Substances)
- **Training necessary**: Yes, training in practices and procedures contained in product literature.
- **Reissue date / reason for reissue**: 1/16/2015 / Updated GHS Standard Format
- **Intended Use of Product**: Solvent Cement for CPVC 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.

Final Sections 15-16 excerpt from Filename: TFP-500 RED LoVoc 1-15.xls
Limited Warranty
For warranty terms and conditions, visit www.tyco-fire.com.