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

Tyco

## GHS SAFETY DATA SHEET

Date Revised: FEB 2020

TFP-500 RED Low VOC Cement for CPVC Plastic Pipe

Supersedes: OCT 2019

## 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

SUPPLIER:

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		Environmental		Physical	
Acute Toxicity:	Category 4	Acute Toxicity:	None Known	Flammable Liquid	Category 2
Skin Irritation:	Category 3	Chronic Toxicity:	None Known		
Skin Sensitization:	NO				
Serious Eye Irritation:	Category 2				

GHS LABEL:



Signal Word: Danger

## Hazard Statements

H225: Highly flammable liquid and vapor  
H302: Harmful if swallowed  
H315: Causes skin irritation  
H319: Causes serious eye irritation  
H332: Harmful if inhaled  
H335: May cause respiratory irritation  
H336: May cause drowsiness or dizziness  
H351: Suspected of causing cancer

## Precautionary Statements

P201: Obtain special instructions before use  
P202: Do not handle until all safety precautions have been read and understood.  
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking  
P233 + P403: Keep container tightly closed. Store in a well-ventilated place.  
P240 + P241: Ground/bond container and receiving equipment. Use explosion-proof equipment.  
P242 + P243: Use only non-sparking tools. Take precautionary measures against static discharge.  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray  
P270: Do not eat, drink or smoke when using this product.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P501: Dispose of contents/ container to an approved waste disposal plant.

## Response

P301+310: IF SWALLOWED: Immediately call a POISON CENTER/Medical Attention  
P331: Do NOT induce vomiting.  
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water [or shower].

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+313: IF exposed or concerned: Get medical advice/attention.

Physical Hazards Not Otherwise Classified

Vapors may form explosive mixture with air.

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS	EINECS	REACH		CONCENTRATION
			Registration Number		% by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	01-2119444314-46-0000		30 - 60
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000		2 - 25
Cyclohexanone	108-94-1	203-631-1	01-2119453616-35-0000		1 - 5
Acetone	67-64-1	200-662-2	01-2119471330-49-0000		5 - 15

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.  
**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

<b>Suitable Extinguishing Media:</b>	Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.	<b>HMIS</b>	<b>NFPA</b>	0-Minimal
<b>Unsuitable Extinguishing Media:</b>	Water spray or stream.	<b>Health</b>	2	1-Slight
<b>Exposure Hazards:</b>	Inhalation and dermal contact	<b>Flammability</b>	3	2-Moderate
<b>Combustion Products:</b>	Oxides of carbon, hydrogen chloride and smoke	<b>Reactivity</b>	0	3-Serious
		<b>PPE</b>	B	4-Severe

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

## IMPORTANT

Refer to Technical Data Sheet  
TFP2300 for warnings pertaining to  
regulatory and health information.

Sections 1-5 excerpt from: Filename: TFP-500 RED LoVoc 2-20.xls

**SECTION 6 - 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 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.  
 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, strong oxidizers and isocyanates.  
 Follow all precautionary information on container label, product bulletins and solvent cementing literature.

**SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION**

EXPOSURE LIMITS:	Component	ACGIH 8-hr TLV	ACGIH 15-min STEL	OSHA 8-hr PEL	OSHA 15 min STEL	OSHA PEL-Ceiling	CAL/OSHA 8-hr PEL	CAL/OSHA Ceiling	CAL/OSHA 15-min STEL
	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm
	Cyclohexanone	20 ppm	50 ppm	50 ppm	N/E	N/E	25 ppm	N/E	N/E
	Acetone	250 ppm	500 ppm	1000 ppm	N/E	N/E	500 ppm	3000 ppm	750 ppm

**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 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:** Orange or gray, heavy syrupy liquid  
**Odor:** Ketone  
**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:** 0.989 @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: ≤ 490 g/l.  
**Odor Threshold:** 0.88 ppm (Cyclohexanone)  
**Boiling Range:** 66°C (151°F) to 156°C (313°F)  
**Evaporation Rate:** > 1.0 (BUAC = 1)  
**Flammability:** Category 2  
**Flammability Limits:** LEL: 1.1% based on Cyclohexanone  
 UEL: 11.8% based on THF  
**Vapor Pressure:** 129 mm Hg @ 20°C (68°F) based on THF  
**Vapor Density:** <2 (Air = 1)  
**Other Data: Viscosity:** Heavy bodied

**SECTION 10 - STABILITY AND REACTIVITY**

**Chemical Stability:** Normally stable.  
**Reactivity:** THF- Vapors may form explosive mixture with air.  
**Hazardous decomposition products:** None in normal use. When forced to burn, this product gives off oxides of carbon and smoke.  
**Conditions to avoid:** High temperatures. Open flames, sparks, static discharge, heat and other ignition sources.  
**Incompatible Materials:** Oxidizing agents (e.g. peroxides).

**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:** (THF) Category 2 Carcinogen  
 (MEK) Low level chronic exposure has been shown to cause decreased memory and impairment of the central nervous system.  
**Health Hazards Not Otherwise Classified:** This material may cause defatting and irritation of skin (Dermatitis) upon prolonged or repeated contact.  
**Aspiration Hazard:** Not Applicable  
**Respiratory or Skin Sensitization:** Not Applicable

Toxicity:	LD50	LC50	Target Organs
Tetrahydrofuran (THF)	Oral: 2842 mg/kg (rat)	Inhalation 3 hrs. 21,000 mg/m <sup>3</sup> (rat)	STOT SE3
Methyl Ethyl Ketone (MEK)	Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)	Inhalation 8 hrs. 23,500 mg/m <sup>3</sup> (rat)	STOT SE3
Cyclohexanone	Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit)	Inhalation 4 hrs. 8,000 PPM (rat)	Not Established
Acetone	Oral: 5800 mg/kg (rat)	Inhalation 50,100 mg/m <sup>3</sup> (rat)	STOT SE3

**Acute Toxicity** Category 4  
 Methyl Ethyl Ketone (MEK) Acute (Oral) Toxicity: None Acute (Dermal) Toxicity: None Acute (Inhalation) Toxicity: None

**Specific Target Exposure Toxicity (Single Exposure):** Category 3  
**Specific Target Exposure Toxicity (Repeated Exposure):** Not Applicable

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established

**Carcinogenicity:** (THF) Category 2

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity:**

Acute Aquatic Toxicity:	Pimephales promelas (fathead minnow);	Daphnia magna (water flea);	Pseudokirchneriella subcapitata (microalgae)
Tetrahydrofuran (THF)	2160 mg/L	No Data Available	3,700 mg/l - 192 hour
Cyclohexanone	527 mg/L	> 100 mg/L	0.925 mg/l - 72 hour
Methyl Ethyl Ketone	> 100 mg/L	> 100 mg/L	2,029 mg/l - 96 hour
Acetone	No Data Available	7630	No Data Available

**Mobility in Soil:** If released into the environment, this product can move rapidly through the soil.  
**Degradability:** Does not degrade rapidly based on quantitative tests. (Tetrahydrofuran)  
**Bioaccumulation:** This product and its degradation products are not known to bioaccumulate..

**SECTION 13 - WASTE DISPOSAL CONSIDERATIONS**

Dispose of waste and containers in compliance with applicable Federal, State, Provincial, and Local regulations. Consult disposal expert.

**SECTION 14 - TRANSPORT INFORMATION**

Proper Shipping Name: Adhesives  
 Hazard Class: 3  
 Secondary Risk: None  
 Identification Number: UN 1133  
 Packing Group: PG II  
 Label Required: Class 3 Flammable Liquid  
 Marine Pollutant: NO

EXCEPTION for Ground Shipping	
<b>DOT Limited Quantity:</b>	Up to 5L per inner packaging, 30 kg gross weight per package.
<b>Consumer Commodity:</b>	Depending on packaging, these quantities may qualify under DOT as "ORM-D" .

TDG INFORMATION	
TDG CLASS:	FLAMMABLE LIQUID 3
SHIPPING NAME:	ADHESIVES
UN NUMBER/PACKING GROUP:	UN 1133, PG II

**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    AICS, Korea ECL/TCCL, Japan MITI (ENCS)  
**Compliance Statement:** This SDS was prepared to be in accordance with:  
 US OSHA Hazard Communication Standard 29 CFR 1910.1200 (Rev 2012)  
 European Regulation (EC) No (EU) 2015/830 on classification, labelling and packaging of substances and mixtures

**SECTION 16 - OTHER INFORMATION**

**Specification Information:** All ingredients are compliant with the requirements of the European  
**Department issuing data sheet:** 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:** 2/7/2020 / 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 13-16 excerpt from: Filename: TFP-500 RED LoVoc 2-20.xls

# ***Limited Warranty***

For warranty terms and conditions, visit  
[www.tyco-fire.com](http://www.tyco-fire.com).