

Sections 1-6 excerpt from: Filename: TFP-500 RED Lovoc 1-15.xls

Environmental Precautions:
 Methods for Cleaning up: Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel.
 Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.
 Prevent contact with skin or eyes (see section 8).
 Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.
 Keep away from heat, sparks and open flame.
Personal precautions:
 Keep away from heat, sparks and open flame

SECTION 6 - ACCIDENTAL RELEASE MEASURES
Protection for Firefighters:
 Self-contained breathing apparatus or full-face positive pressure airline masks.
Combustion Products:
 Oxides of carbon, hydrogen chloride and smoke
Exposure Hazards:
 Inhalation and dermal contact
Unsuitable Extinguishing Media:
 Water spray or steam.
Suitable Extinguishing Media:
 Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.
Health: 2
Flammability: 3
Reactivity: 0
PPE: B
 0- Minimal
 1- Slight
 2- Moderate
 3- Serious
 4- Severe

SECTION 5 - FIREFIGHTING 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 4 - FIRST AID MEASURES
 # 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.
 * 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).
 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.
 Tetrahydrofuran (THF)
 Methyl Ethyl Ketone (MEK)
 Acetone
 Cyclohexanone
 109-99-9 203-726-8 05-21 16297729-22-0000
 78-93-3 201-159-0 05-21 16297728-24-0000
 67-64-1 200-662-2 05-21 16297713-35-0000
 108-94-1 203-631-1 05-21 16297718-25-0000
 Pre-registration Number
 REACH
 CAS# EINECS #
 CONCENTRATION % by Weight
 30 - 60
 2 - 25
 5 - 15
 1 - 5


SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS
Hazard Statements
 H225: Highly flammable liquid and vapor
 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
 EUH019: May form explosive peroxides
Precautionary Statements
 P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking
 P261: Avoid breathing dust/fume/gas/mist/vapors/spray
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P337+P313: Get medical advice/attention
 P403+P233: Store in a well ventilated place. Keep container tightly closed
 P501: Dispose of contents/container in accordance with local regulation

GHS LABEL:
 Signal Word: Danger
 WHMIS CLASSIFICATION: CLASS D, DIVISION 2
 CLASS B, DIVISION 2
GHS CLASSIFICATION:
 Health: None Known
 Environment: None Known
 Acute Toxicity: None Known
 Chronic Toxicity: None Known
 Skin Irritation: Category 3
 Skin Sensitization: NO
 Eye: Category 2
Physical
 Flammable Liquid
 Category 2

SECTION 2 - HAZARDS IDENTIFICATION
EMERGENCY: Transportation: CHEMTel Tel: 800.255.3924, +1 813.248.0585 (international)
 CHEMTel Tel: 800.255.3924, +1 813.248.0585 (international)
 Medical: CHEMTel Tel: 800.255.3924, +1 813.248.0585 (international)
 Tel: 1-310-898-3300
 P O Box 379, Gardena, CA 90247-0379
 17109 South Main Street, Gardena, CA 90248-3127
 iPS Corporation
SUPPLIER:
 Low VOC Solvent Cement for CPVC Plastic Pipe
PRODUCT USE:
 TFP-500 RED Low VOC Cement for CPVC Plastic Pipe
PRODUCT NAME:
 TFP-500 RED Low VOC Cement for CPVC Plastic Pipe

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION
Tyco
GHS SAFETY DATA SHEET
 TFP-500 RED Low VOC Cement for CPVC Plastic Pipe
 Date Revised: JAN 2015
 Supersedes: JUN 2013

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



Worldwide Contacts
www.tyco-fire.com

Tyco
GHS SAFETY DATA SHEET
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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.
Store in ventilated room or shade below 33°C (90°F) and away from direct sunlight.

Storage: 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 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

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

Engineering Controls: Use local exhaust as needed
Maintain breathing zone airborne concentrations below exposure limits

Personal Protective Equipment (PPE): 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 are 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 116b, Test Method 316A, VOC content is: ≤ 490 g/L
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: LD50
Oral: 2842 mg/kg (rat)
Oral: 2737 mg/kg (rat). Dermal: 6480 mg/kg (rabbit)
Oral: 5800 mg/kg (rat)
Oral: 1535 mg/kg (rat). Dermal: 948 mg/kg (rabbit)
Reproductive Effects
Not Established
Teratogenicity
Not Established
Mutagenicity
Not Established
Embryotoxicity
Not Established
Sensitization to Product
Not Established
Synergistic Products
Not Established
Target Organs
STOT SE3
STOT SE3
STOT SE3
Inhalation 3 hrs: 21,000 mg/m³ (rat)
Inhalation 8 hrs: 23,500 mg/m³ (rat)
Inhalation 50,100 mg/m³ (rat)
Inhalation 4 hrs: 8,000 PPM (rat)

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 < 490 g/L
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

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

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

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

Tyco	GHS SAFETY DATA SHEET TFP-500 RED Low VOC Cement for CPVC Plastic Pipe	Date Revised: JAN 2015 Supersedes: JUN 2013
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SECTION 15 - REGULATORY INFORMATION	
Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat 2 Symbols: F, Xi Risk Phrases: R11: Highly flammable. R36/37: Irritating to eyes and respiratory system.	Safety Phrases: S2: Keep out of the reach of children S9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition - No smoking. S25: Avoid contact with eyes. S26: In case of contact with eyes, nose immediately with plenty of water and seek medical advice. S33: Take precautionary measures against static discharges.

SECTION 16 - OTHER INFORMATION	
Specification Information: Department issuing data sheet: Safety Health & Environmental Affairs Training necessary: Yes, training in practices and procedures contained in product literature. Release 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 LowVoc 1-15.xls

Limited Warranty

For warranty terms and conditions, visit
www.tyco-fire.com.