

### GHS SAFETY DATA SHEET

THERMA TF-100 RED Low VOC Cement for CPVC Plastic Pipe

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: THERMA TF-100 RED Low VOC Cement for CPVC Plastic Pipe

PRODUCT USE: Low VOC Solvent Cement for CPVC Plastic Pipe

SUPPLIER: Thermafit Industries Inc. MANUFACTURER: IPS Corporation

> 15030 Keswick St 17109 South Main Street, Carson, CA 90248-3127 P.O. Box 379, Gardena, CA 90247-0379 Van Nuys, CA 91405

Tel. 877-827-CPVC Tel. 1-310-898-3300

Medical: Tel. 800.451.8346, 760.602.8703 3E Company (International) EMERGENCY: Transportation: Tel. 800.424.9300, 703.527.3887 CHEMTREC (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

GHS LABEL:

Eye:









Signal Word: Danger

CLASS B, DIVISION 2 WHMIS CLASSIFICATION:

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 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

#### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS #	REACH	CONCENTRATION
			Pre-registration Number	% by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	05-2116297729-22-0000	30 - 60
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	05-2116297728-24-0000	5 - 25
Cyclohexanone	108-94-1	203-631-1	05-2116297718-25-0000	5 - 20

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).

## **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. Inaestion: 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. **HMIS NFPA** 0-Minimal **Unsuitable Extinguishing Media:** Health 2 2 1-Slight Water spray or stream. 3 3 **Exposure Hazards:** Inhalation and dermal contact Flammability 2-Moderate Oxides of carbon, hydrogen chloride and smoke Combustion Products: 3-Serious Reactivity 0 0 Self-contained breathing apparatus or full-face positive pressure airline masks. 4-Severe Protection for Firefighters:

## **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.

Store in ventilated room or shade below 33 °C (90 °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 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS: ACGIH TLV ACGIH STEL OSHA PEL OSHA STEL: Component Tetrahydrofuran (THF 100 ppm 50 ppm 200 ppm Methyl Ethyl Ketone (MEK) 200 ppm 300 ppm 200 ppm Cyclohexanone 20 ppm 50 ppm 50 ppm

Use local exhaust as needed. **Engineering Controls:** 

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.

Filename: THERMA TF-100 RED LoVoc\_4-10.xls Page 1 of 2

4/23/2010 11:32 AM

Supersedes: JAN 2008

Date Revised: APR 2010

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES** 

Red, medium syrupy liquid Appearance:

Odor: **Odor Threshold:** 0.88 ppm (Cyclohexanone) Ketone

pH: Not Applicable

Melting/Freezing Point: -108.5 °C (-163.3 °F) Based on first melting component: THF **Boiling Range:** 66 °C (151 °F) to 156 °C (313 °F)

**Boiling Point:** 66 °C (151 °F) Based on first boiling component: THF **Evaporation Rate:** > 1.0 (BUAC = 1)Flash Point: -20 °C (-4 °F) TCC based on THF Flammability: Category 2

Specific Gravity: 0.995 @23℃ (73℉)

Flammability Limits: Solubility:

Solvent portion soluble in water. Resin portion separates out. UEL: 11.8% based on THF Partition Coefficient n-octanol/water: Vapor Pressure: Not Available 129 mm Hg @ 20 °C (68 °F)based on THF

LEL: 1.1% based on Cyclohexanone

**Auto-ignition Temperature:** 321 °C (610 °F) based on THF Vapor Density: <2 (Air = 1)Medium bodied

**Decomposition Temperature:** Not Applicable Other Data: Viscosity: When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤ 490 g/l. VOC Content:

**SECTION 10 - STABILITY AND REACTIVITY** 

Stability:

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.

May cause nausea, vomiting, diarrhea and mental sluggishness. Ingestion:

Chronic (long-term) effects: None known to humans

Toxicity: LD50 LC<sub>50</sub>

Oral: 2842 mg/kg (rat) Inhalation 3 hrs. 21,000 mg/m<sup>3</sup> (rat) Tetrahydrofuran (THF) Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Methyl Ethyl Ketone (MEK) Inhalation 8 hrs. 23,500 mg/m<sup>3</sup> (rat) Cyclohexanone Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Inhalation 4 hrs. 8,000 PPM (rat)

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

**SECTION 12 - ECOLOGICAL INFORMATION** 

**Ecotoxicity:** 

In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of ≤ 490 g/l. Mobility:

Degradability: 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: **EXCEPTION for Ground Shipping** 3

Secondary Risk: None DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package.

Identification Number: Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D" UN 1133

Packing Group: PG II

Label Required: Class 3 Flammable Liquid

FLAMMABLE LIQUID 3 Marine Pollutant: NO TDG CLASS: SHIPPING NAME: ADHESIVES

UN NUMBER/PACKING GROUP: UN 1133, PG II

**SECTION 15 - REGULATORY INFORMATION** 

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia Precautionary Label Information: Highly Flammable, Irritant

Symbols: F. Xi AICS, Korea ECL/TCCL, Japan MITI (ENCS) **Risk Phrases:** 

R11: Highly flammable. R66: Repeated exposure may cause skin dryness or cracking R67: Vapors may cause drowsiness and dizziness

R36/37: Irritating to eyes and respiratory system.

Safety Phrases: S2: Keep out of the reach of children S25: Avoid contact with eyes.

S9: Keep container in a well-ventilated place. S26: 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

TDG INFORMATION

Directive on RoHS (Restriction of Hazardous Substances). E-mail address: <EHSinfo@ipscorp.com>

Training necessary: Yes, training in practices and procedures contained in product literature.

4/23/2010 / Updated GHS Standard Format Reissue date / reason for reissue: 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.

4/23/2010 11:32 AM