

SAFETY DATA SHEET

Christy's® CPVC Orange Low VOC Solvent Cement

Date Revised: MAY 2016 Supersedes: MAR 2015

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Christy's® CPVC Orange Low VOC Solvent Cement

PRODUCT USE: Low VOC Solvent Cement for CPVC Plastic Pipe

SUPPLIER and MANUFACTUREF T Christy Enterprises, Inc.

655 East Ball Road, Anaheim, CA 92805-5910 Tel. 1-714-507-3300 (North America)

Tel. 1-714-507-3300 (International)

EMERGENCY: Transportation/Medical issues: Tel. 800.535.5053 INFOTRAC

SECTION 2 - HAZARDS IDENTIFICATION

CHO CERCON TO THE TENE									
Health		Environmental		Physical					
Acute Toxicity:	Category 4	Acute Toxicity:	None Known	Flammable Liquid/Aerosol/Gas:	Category 2				
Skin Corrosion/Irritation:	Category 3	Chronic Toxicity:	None Known						
Carcinogenicity	Category 2								
Eye:	Category 2B								

GHS LABEL

WHMIS CLASSIFICATION: CLASS B, DIVISION 2

SYNONYMS:

CONTROLLED PRODUCT CLASS D, DIVISION 2B

Signal Word: DANGER

Hazard Statements Precautionary Statements (See Section 15 for all advisory and required precautions)

H225 Highly flammable liquid and vapor P201 Obtain special instructions before use. H302 Harmful if swallowed

P202 Do not handle until all safety precautions have been read and understood

H319 Causes serious eye irritation P210 Keep away from heat, hot surfaces, open flames and other ignition sources. No smoking H332 Harmful if inhaled P261 Avoid breathing fumes/gas/vapours

H335 May cause respiratory irritation P264 Wash hands thoroughly after handling.

H336 May cause drowsiness or dizziness P270 Do not eat, drink or smoke when using this product. H351 Suspected of causing cancer P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective/ clothing/ eye protection/ face protection

P330 Rinse Mouth

P304 + P340 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. P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

P308+P313 IF exposed or concerned: Get medical adivce/attention P403+P233 Store in a well-ventilated place. Keep container tightly closed

P405 Store locked up

P501 Dispose of contents/container in accordance with local regulations

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS #	REACH	CONCENTRATION
			Pre-registration Number	% by Weight
Chlorinated Polyvinyl Chloride Resin (CPVC)	NON/HAZ			10-20
Tetrahydrofuran (THF)** (Stabilized)	109-99-9	203-726-8	05-2116297729-22-0000	38-68
Methyl Ethyl Ketone (MEK)*	78-93-3	201-159-0	05-2116297728-24-0000	0-15
Cyclohexanone	108-94-1	203-631-1	05-2116297718-25-0000	6-19

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. *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. 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

Suitable Extinguishing Media:	Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.		HMIS	NFPA	0-Minimal
Unsuitable Extinguishing Media:	Water spray or stream.	Health	2	2	1-Slight
Exposure Hazards:	Carbon monoxide, carbon dioxide, hydrogen chloride and smoke	Flammability	3	3	2-Moderate
Combustion Products:	Carbon monoxide, carbon dioxide, hydrogen chloride and smoke	Reactivity	1	1	3-Serious
Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks.					4-Severe

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

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

Prevent contact with skin or eves (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 metal contained 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 27°C (80°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: Component ACGIH TLV ACGIH STEL OSHA PEL OSHA STEL: Tetrahydrofuran (THF) #,## 50 ppm skin # Mfg. Recommended Allowable Exposure Limit (AEL): 25 ppm 100 ppm 200 ppm 250 ppm Methyl Ethyl Ketone (MEK) 200 ppm 300 ppm 200 ppm 300 ppm ## Mfg. Recommended STEL: 75 ppm Cyclohexanone 20 ppm skin

50 ppm **Engineering Controls:** If ventilated cabinet, enclosure or fume hood is necessary, average airflow should be at least 100 FPM (50.8 cm/sec).

Monitoring: 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, Eye Protection:

Skin Protection: Prevent contact with the skin as much as possible. Polyethylene or PVA coated rubber gloves should be used for frequent immersion. Use of latex/nitrile surgical 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.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Orange, heavy syrupy liquid

Odor: Ethereal Odor Threshold: N/D

Not Applicable

P.H. Melting/Freezing Point: -108.5°C (-163°F) Based on first freezing component: THF 57°C (133°F) to 67°C (151°F) Boiling Range: > 1.0 (BUAC = 1) **Boiling Point:** 67°C (151°F) Based on first boiling component: Tetrahydrofuran (TH Evaporation Rate: Flammability:

@23°C \pm 2° (73°F \pm 3.6°) Typical 0.982 \pm 0.01 LEL: 2% UEL: 11.8% Specific Gravity Flammability Limits: Solvent portion completely soluble in water. Resin portion separates out. Solubility:

Not Available 143 mm Hg @ 20°C (68°F): THF Partition Coefficient n-octanol/v Vapor Pressure:

321°C (609.8°F): THF Auto-ignition Temperature: Vapor Density: 2.49 (Air = 1) **Decomposition Temperature:** Not Applicable Other Data: Viscosity: Heavy bodied

VOC Content : When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤490 g/l.

SECTION 10 - STABILITY AND REACTIVITY

Stability: Hazardous decomposition products:

None in normal use. When forced to burn, this product gives off carbon monoxide (CO), carbon dioxide (CO2),

Category 2

hydrogen chloride (HCI) and smoke

-14°C (7°F) T.C.C. based on THF

Conditions to avoid: Keep away from heat, sparks, open flame and other ignition sources Incompatible Materials: Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:

Flash Point:

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:

Carinogenicity:

None known to humans

Tetrahydrofuran (109-99-9)

ACGIH: A3- Confirmed Animal Carcinogen with Unknow Relevance to Humans

Cyclohexanone (108-94-1)

ACGIH: A3- Confirmed Animal Carcinogen with Unknow Relevance to Humans

LC₅₀ Toxicity: LD₅₀

Inhalation 3 hrs. 21,000 PPM (rat) Tetrahydrofuran (THF) Oral: 2880 mg/kg (rat) Methyl Ethyl Ketone (MEK) Inhalation 4 hrs. 4.000 PPM (rat) Oral: 3.98 g/kg (rat), Dermal: 8-10 mg/kg (rabbit) Inhalation LCLO, 4 hrs. 2,000 PPM (rat) Cyclohexanone Oral: 1900 mg/kg (rat), Dermal: 1.0 g/kg (rabbit)

Reproductive Effects Teratogenicity Embryotyxicity Sensitization to Product Synergistic Products Mutagenicity Not Available Not Available May cause embryofetal toxicity Not Applicable Not Applicable Not Applicable

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Category IV

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

Minimal other adverse effects include possible ground water contamination from release to soil, sewers, drains or water course.

Degradability: Biodegradable BioAccumulation: Minimal to none

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert. Can be disposed of by controlled incineration. May be allowed to dry and disposed of as trash.

Excessive quantities should not be permitted to enter drains, sewers or water courses. Empty containers should be air dried before disposing

SECTION 14 - TRANSPORT INFORMATION

DOT, IATA, ADR, IMO/IMDG SHIPPING INFORMATION

Proper Shipping Name: DOT/IMDG EXCEPTION: Case quantities of cement in containers of less than one liter may be Adhesives Hazard Class:

shipped as LIMITED QUANTITY when properly labeled and marked. ICAO/IATA May be shipped by air as CONSUMER COMMODITY, ID 8000 when Secondary Risk None

Identification Number: UN 1133 properly packaged, labeled and marked. Packing Group TDG INFORMATION

Label Required: Flammable Liquid TDG CLASS FLAMMABLE LIQUID 3

SHIPPING NAME: ADHESIVES (TETRAHYDROFURAN)

Marine Pollutant: UN NUMBER: 1133. PG II

SECTION 15 - REGULATORY INFORMATION

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

AICS, Korea ECL/TCCL, Japan MITI (ENCS)

Risk Phrases: R-11 Highly Flammable

R-20 Harmful by inhalation R-36/37/38 Irritating to eyes, respiratory system and skin. R-21 Harmful in contact with skin. R67 Vapours may cause drowsiness and dizziness

R-22 Harmful if swallowed. Safety Phrases:

S-2 Keep out of reach of children. S-24/25 Avoid contact with skin and eyes.

S-7 Keep container tightly closed when not in use. S-29 Do not empty into drains. S-9 Keep container in a well-ventilated place. S-37 Wear suitable gloves.

S-15/16 Keep away from heat and sources of ignition. No smoking. S-45 If seeking medical advice show physician label or SDS.

S-23 Do not breathe vapor S-46 Use only in well ventilated areas.

SECTION 16 - OTHER INFORMATION

Specification Information:

Environmental Health & Safety All ingredients are compliant with the requirements of the European Department issuing data sheet: <EHSinfo@tchristy.com> Directive on RoHS (Restriction of Hazardous Substances). e-mail address:

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

Reissue date / reason for reissue: MAY 2016/ Updated Information

Intended Use of Product: Adhesive for bonding/cementing PVC plastic pipe and fittings

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