

#### SAFETY DATA SHEET

Christy's® Clear Regular Low VOC PVC Plastic Pipe Cement

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Christy's® Clear Regular Body Low VOC PVC Solvent Cement

SYNONYMS:

PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Pipe SUPPLIER and MANUFACTURER 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)

**GHS LABEL** 

EMERGENCY: Transportation/Medical issues: Tel. 800.535.5053 INFOTRAC

#### **SECTION 2 - HAZARDS IDENTIFICATION**

GHS	CLASSIF	ICATION:
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ONO OLACOMICATION.						
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					

Signal Word: DANGER



WHMIS CLASSIFICATION: CLASS B, DIVISION 2

CONTROLLED PRODUCT CLASS D, DIVISION 2B

Date Revised: MAY 2016

Supersedes:

MAR 2015

**Hazard Statements** H225 Highly flammable liquid and vapor

H302 Harmful if swallowed

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 (See Section 15 for all advisory and required precautions) P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood P210 Keep away from heat, hot surfaces, open flames and other ignition sources. No smoking

P261 Avoid breathing fumes/gas/vapours P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product.

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.

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	
Polyvinyl Chloride Resin (PVC)	NON/HAZ				
Tetrahydrofuran (THF)** (Stabilized)	109-99-9	203-726-8	05-2116297729-22-0000	10-30	
Methyl Ethyl Ketone (MEK)*	78-93-3	201-159-0	05-2116297728-24-0000	20-40	
Cyclohexanone	108-94-1	203-631-1	05-2116297718-25-0000	25-35	
Acetone	67-64-1	200-662-2	05-2116297713-35-0000	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. 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**

Flush eves immediately with plenty of water for 15 minutes and seek medical advice immediately. Contact with eves:

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice Inhalation: 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** 

Dry chemical powder, carbon dioxide gas, foam, Halon, water fog. HMIS 0-Minimal Suitable Extinguishing Media: NFP# Unsuitable Extinguishing Media: Water spray or stream. Health 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 3-Serious Self-contained breathing apparatus or full-face positive pressure airline masks. 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 metal containe

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 27°C (80°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

EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL:	
	Tetrahydrofuran (THF) #,##	50 ppm skin	100 ppm	200 ppm	250 ppm	# Mfg. Recommended Allowable Exposure Limit (AEL): 25 ppm
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	300 ppm	## Mfg. Recommended STEL: 75 ppm
	Cyclohexanone	20 ppm skin		50 ppm		
	Acetone	500nnm	750nnm	750nnm	1000nnm	

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):

Skin Protection:

Eve 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.

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.

FileName: RH RCLV Page 1 of 2

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Clear, little syrupy liquid Appearance:

Odor: Ethereal Odor Threshold: N/D P.H. Not Applicable

Melting/Freezing Point: -95°C (-139°F) Based on first freezing component: Acetone **Boiling Range:** 57°C (133°F) to 67°C (151°F) **Evaporation Rate:** > 1.0 (BUAC = 1)

**Boiling Point:** 57°C (133°F) Based on first boiling component: Acetone -14°C (7°F) T.C.C. based on THF Flash Point: Flammability: Category I LEL: 2% UEL: 11.8% Specific Gravity @23°C  $\pm$  2° (73°F  $\pm$  3.6°) Typical 0.844  $\pm$  0.04 Flammability Limits:

Solubility: Solvent portion completely soluble in water. Resin portion separates out. Partition Coefficient n-octanol/water: Not Available 143 mm Hg @ 20°C (68°F): THF Vapor Pressure:

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

**Decomposition Temperature:** When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤ 510 g/l. VOC Content

#### **SECTION 10 - STABILITY AND REACTIVITY**

Stability: Stable

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

hydrogen chloride (HCI) and smoke.

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:

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: None known to humans

Carinogenicity:

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

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

Tetrahydrofuran (THF) Oral: 2880 mg/kg (rat) Inhalation 3 hrs. 21,000 PPM (rat) Methyl Ethyl Ketone (MEK)\_ Oral: 3.98 g/kg (rat), Dermal: 8-10 mg/kg (rabbit) Inhalation 4 hrs. 4,000 PPM (rat) Cyclohexanone Oral: 1900 mg/kg (rat), Dermal: 1.0 g/kg (rabbit) Inhalation LCLO, 4 hrs, 2,000 PPM (rat) Inhalation LCLO, 4 hrs, 16,000ppm (rat) Acetone Oral: 9.75 g/kg (rat), Dermi 20 g/kg (rabbit)

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

### **SECTION 12 - ECOLOGICAL INFORMATION**

Ecotoxicity Category IV

In normal use, emission of volatile organic compounds (VOC's) to the air takes place. Typically at a rate of ≤ 510 Grams/Liter. Mobility:

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: Adhesives [

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

shipped as LIMITED QUANTITY when properly labeled and marked. Secondary Risk None

ICAO/IATA May be shipped by air as CONSUMER COMMODITY, ID 8000 when properly packaged, labeled and marked. **Identification Number:** UN 1133

TDG INFORMATION Packing Group: Flammable Liquid TDG CLASS:

FLAMMABLE LIQUID 3 Label Required: SHIPPING NAME: ADHESIVES (TETRAHYDROFURAN)

Marine Pollutant: NO 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) Symbols: F. Xi R-11 Highly Flammable Risk Phrases:

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-37 Wear suitable gloves. S-9 Keep container in a well-ventilated place 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-46 Use only in well ventilated areas. S-23 Do not breathe vapor.

# SECTION 16 - OTHER INFORMATION

Specification Information:

Intended Use of Product:

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

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

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