

SAFETY DATA SHEET

Christy's® Red Hot Blue Glue® PVC Plastic Pipe Cement

Date Revised: MAY 2016 Supersedes: MAR 2015

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Christy's® Red Hot Blue Glue®

PRODUCT USE: Solvent Cement for PVC Plastic Pipe

SUPPLIER and MANUFACTUREFT 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 CLASSIFICATION	N:	
	Health	
Acute Toxicity:	Category 4	Acute Toxicity:
Skin Corrosion/Irritation	: Category 3	Chronic Toxicity:

Environmental None Known

Physical Flammable Liquid/Aerosol/Gas:

Category 2

Carcinogenicity Category 2 Eye:

Category 2B

None Known

WHMIS CLASSIFICATION: CONTROLLED PRODUCT CLASS B, DIVISION 2 CLASS D, DIVISION 2B

Signal Word: DANGER

Hazard Statements H225 Highly flammable liquid and vapor H302 Harmful if swallowed

H319 Causes serious eve 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)

SYNONYMS:

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 (F 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

OLO (10110 OOM) COMMON					
CAS#	EINECS#	REACH	CONCENTRATION		
		Pre-registration Number	% by Weight		
NON/HAZ					
109-99-9	203-726-8	05-2116297729-22-0000	45 -70		
78-93-3	201-159-0	05-2116297728-24-0000	5 - 15		
108-94-1	203-631-1	05-2116297718-25-0000	10 - 30		
	NON/HAZ 109-99-9 78-93-3	NON/HAZ 109-99-9 203-726-8 78-93-3 201-159-0	NON/HAZ 109-99-9 203-726-8 05-2116297729-22-0000 78-93-3 201-159-0 05-2116297728-24-0000		

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. Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Skin contact: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Inhalation: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately. Ingestion:

CICUTINO MEASURES

SECTION 5 - LIKELIGHTING	MEASURES					Ξ
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 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 container Aluminum or plastic containers

Materials not to be used for clean up:

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.

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

SECHONO	- LIVE	CAUTIONS TO CONT	NOL LA	JOURE / I	LIVOOINAL	INOILO	11OIC
EXPOSURE LIN	IITS:	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		

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

Maintain breathing zone airborne concentrations below exposure limits. Monitorina:

Personal Protective Equipment (PPE):

Avoid contact with eyes, wear splash proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, Eve Protection:

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 Skin Protection:

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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue, Medium syrupy liquid

N/D Odor Threshold: Odor: Ethereal

Not Applicable P.H. **Boiling Range:** 67°C (151°F) Melting/Freezing Point: -108.5°C (-163°F) Based on first freezing component: THF Boiling Point: 67°C (151°F) Based on first boiling component: Tetrahydrofuran (TH Evaporation Rate: > 1.0 (BUAC = 1) Flammability: Category 2 Flash Point: -14°C (7°F) T.C.C. based on THF LEL: 2% @23°C ± 2° (73°F ± 3.6°) Typical 0.944 ± 0.01 Flammability Limits: Specific Gravity **UEL: 11.8%**

Solvent portion completely soluble in water. Resin portion separates out. Solubility:

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

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

When applied as directed, per SCAQMD Rule 1168, Test Method 316A,VOC content is: ≤600 g/l. VOC Content :

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

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

hydrogen chloride (HCI) and smoke.

Keep away from heat, sparks, open flame and other ignition sources. Conditions to avoid:

Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates. Incompatible Materials:

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:

Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages. Inhalation:

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

Toxicity:

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

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

LC50

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 ≤ 600 Grams/Liter. Mobility:

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

Degradability: Biodegradable BloAccumulation: 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 Adhesives

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

shipped as LIMITED QUANTITY when properly labeled and marked. **Hazard Class:** Secondary Risk 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: TDG CLASS: FLAMMABLE LIQUID 3 Flammable Liquid Label Required:

SHIPPING NAME:

ADHESIVES (TETRAHYDROFURAN)

UN NUMBER: 1133, PG II Marine Pollutant: NO

SECTION 15 - REGULATORY INFORMATION

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS) Precautionary Label Information: Highly Flammable, Irritant

Symbols: F Xi Risk Phrases:

R-11 Highly Flammable R-36/37/38 Irritating to eyes, respiratory system and skin. R-20 Harmful by inhalation R-21 Harmful in contact with skin. R67 Vapours may cause drowsiness and dizziness

R-22 Harmful if swallowed. S-24/25 Avoid contact with skin and eyes. S-2 Keep out of reach of children Safety Phrases:

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

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

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

SECTION 16 - OTHER INFORMATION

Specification Information:

All ingredients are compliant with the requirements of the European Department issuing data sheet: Environmental Health & Safety <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.

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

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

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.