

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**
**PRODUCT NAME:** Christy's® Red Hot Blue Glue® Low VOC PVC Plastic Pipe Cement

**PRODUCT USE:** Low VOC Solvent Cement for Flexible PVC Plastic Pipe

**SUPPLIER:** H R PRODUCTS

 207 BANNISTER ROAD  
 CANNING VALE, WESTERN AUSTRALIA 6155  
 Tel. 1800998037  
**Emergency** - Call 13 11 26 (Poisons Australia)

**MANUFACTURER:** IPS Corporation

 17109 South Main Street, Gardena, CA 90248-3127  
 P.O. Box 379, Gardena, CA 90247-0379  
 Tel. 1-310-898-3300

**EMERGENCY:** Transportation: CHEMTEL Tel. 800.255-3924, +1 813-248-0585 (International) **Medical:** CHEMTEL Tel. 800.255-3924, +1 813-248-0585 (International)

**SECTION 2 - HAZARDS IDENTIFICATION**
**GHS CLASSIFICATION:**

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 2A				

**GHS LABEL:**

**Signal Word:** DANGER  
**AU Poisons Schedule:** S6

**AU Hazard Category:**  
 Category 2

 Flammable Liquids **ADG CLASSIFICATION:** Class 3, Flammable Liquids

Hazard Statements	Precautionary Statements (See Section 15 for all advisory and required precautions)
H225 Highly flammable liquid and vapour H303 May be harmful if swallowed H320 Causes eye irritation H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness	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 P300 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 advice/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 % by Weight
			Registration Number		
Tetrahydrofuran (THF)	109-99-9	203-726-8	01-2119444314-46-0000		40-65
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000		5-15
Cyclohexanone	108-94-1	203-631-1	01-2119453616-35-0000		10-30
Acetone	67-64-1	200-662-2	01-2119471330-49-0000		0-15

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).  
 # 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.

**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.  
**Unsuitable Extinguishing Media:** Water spray or stream.  
**Exposure Hazards:** Inhalation and dermal contact  
**Combustion Products:** Oxides of carbon, hydrogen chloride and smoke  
**Protection for Firefighters:** Self-contained breathing apparatus or full-face positive pressure airline masks.  
**AU Hazchem Code:** 3YE

	HMIS	NFPA	
Health	2	2	0-Minimal
Flammability	3	3	1-Slight
Reactivity	0	0	2-Moderate
PPE	B		3-Serious
			4-Severe

**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 container.  
**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 44°C (110°F) and away from direct sunlight.  
 Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, 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	ACGIH	OSHA	OSHA	OSHA	CAL/OSHA	CAL/OSHA	CAL/OSHA
		8-hr TLV	15-min STEL	8-hr PEL	15 min STEL	PEL-Ceiling	8-hr PEL	Ceiling	15-min STEL
	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm
	Cyclohexanone	20 ppm	50 ppm	50 ppm	N/E	N/E	25 ppm	N/E	N/E
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm
	Acetone	250 ppm	500 ppm	1000 ppm	N/E	N/E	500 ppm	3000 ppm	750 ppm

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

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Blue, Medium syrupy liquid	<b>Odor Threshold:</b>	0.88 ppm (Cyclohexanone)
<b>Odor:</b>	Ketone	<b>Boiling Range:</b>	56°C (133°F) to 156°C (313°F)
<b>P.H.</b>	Not Applicable	<b>Evaporation Rate:</b>	> 1.0 (BUAC = 1)
<b>Melting/Freezing Point:</b>	-108.5°C (-163°F) Based on first freezing component: THF	<b>Flammability:</b>	Category 2
<b>Boiling Point:</b>	67°C (151°F) Based on first boiling component: Tetrahydrofuran (THF)	<b>Flammability Limits:</b>	LEL: 1.1% based on Cyclohexanone UEL: 11.8%
<b>Flash Point:</b>	-14°C (7°F) T.C.C. based on THF	<b>Vapor Pressure:</b>	143 mm Hg @ 20°C (68°F): THF
<b>Specific Gravity</b>	0.955 @ 23°C ( 73°F)	<b>Vapor Density:</b>	>2.0 (Air = 1)
<b>Solubility:</b>	Solvent portion completely soluble in water. Resin portion separates out.	<b>Other Data: Viscosity:</b>	Medium bodied
<b>Partition Coefficient n-octanol/water:</b>	Not Available		
<b>Auto-ignition Temperature:</b>	321°C (609.8°F): THF		
<b>Decomposition Temperature:</b>	Not Applicable		
<b>VOC Content :</b>	When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤ 510 g/l.		

**SECTION 10 - STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Normally stable.
<b>Reactivity</b>	THF- Vapors may form explosive mixture with air.
<b>Hazardous decomposition products:</b>	None in normal use. When forced to burn, this product gives off oxides of carbon and smoke.
<b>Conditions to avoid:</b>	High temperatures. Open flames, sparks, static discharge, heat and other ignition sources.
<b>Incompatible Materials:</b>	Oxidizing agents (e.g. peroxides).

**SECTION 11 - TOXICOLOGICAL INFORMATION**

<b>Likely Routes of Exposure:</b>	Inhalation, Eye and Skin Contact
<b>Acute symptoms and effects:</b>	
<b>Inhalation:</b>	Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.
<b>Eye Contact:</b>	Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.
<b>Skin Contact:</b>	Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.
<b>Ingestion:</b>	May cause nausea, vomiting, diarrhea and mental sluggishness.
<b>Chronic (long-term) effects:</b>	(THF) Category 2 Carcinogen (MEK) Low level chronic exposure has been shown to cause decreased memory and impairment of the central nervous system.
<b>Health Hazards Not Otherwise Classified:</b>	This material may cause defatting and irritation of skin (Dermatitis) upon prolonged or repeated contact.
<b>Aspiration Hazard:</b>	Not Applicable
<b>Respiratory or Skin Sensitization:</b>	Not Applicable

Toxicity:	LD50	LC50	Target Organs
Tetrahydrofuran (THF)	Oral: 2842 mg/kg (rat), Dermal: > 2,000 mg/kg (rat)	Inhalation: 3 hrs. 21,000 mg/m <sup>3</sup> (rat)	STOT SE3
Cyclohexanone	Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit)	Inhalation 4 hrs. 8,000 PPM (rat)	Not Established
Methyl Ethyl Ketone (MEK)	Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)	Inhalation 8 hrs. 23,500 mg/m <sup>3</sup> (rat)	STOT SE3
Acetone	Oral: 5800 mg/kg (rat), Dermal: 20000 mg/kg (rabbit)	Inhalation 50,100 mg/m <sup>3</sup> (rat)	STOT SE3

<b>Acute Toxicity</b>	Category 4
Methyl Ethyl Ketone (MEK)	Acute (Oral) Toxicity: None   Acute (Dermal) Toxicity: None   Acute (Inhalation) Toxicity: None

**Specific Target Exposure Toxicity (Single Exposure):** Category 3  
**Specific Target Exposure Toxicity (Repeated Exposure):** Not Applicable

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established
<b>Carcinogenicity:</b>	(THF) Category 2				

**SECTION 12 - ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>																					
<b>Acute Aquatic Toxicity:</b>	<table border="1"> <thead> <tr> <th></th> <th>Pimephales promelas (fathead minnow);</th> <th>Daphnia magna (water flea);</th> <th>Pseudokirchneriella subcapitata (microalgae)</th> </tr> </thead> <tbody> <tr> <td>Tetrahydrofuran (THF)</td> <td>2160 mg/L</td> <td>No Data Available</td> <td>3,700 mg/l - 192 hour</td> </tr> <tr> <td>Cyclohexanone</td> <td>527 mg/L</td> <td>&gt; 100 mg/L</td> <td>0.925 mg/l - 72 hour</td> </tr> <tr> <td>Methyl Ethyl Ketone</td> <td>&gt; 100 mg/L</td> <td>&gt; 100 mg/L</td> <td>2,029 mg/l - 96 hour</td> </tr> <tr> <td>Acetone</td> <td>No Data Available</td> <td>7630</td> <td>No Data Available</td> </tr> </tbody> </table>		Pimephales promelas (fathead minnow);	Daphnia magna (water flea);	Pseudokirchneriella subcapitata (microalgae)	Tetrahydrofuran (THF)	2160 mg/L	No Data Available	3,700 mg/l - 192 hour	Cyclohexanone	527 mg/L	> 100 mg/L	0.925 mg/l - 72 hour	Methyl Ethyl Ketone	> 100 mg/L	> 100 mg/L	2,029 mg/l - 96 hour	Acetone	No Data Available	7630	No Data Available
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<b>Mobility in Soil:</b>	If released into the environment, this product can move rapidly through the soil.																				
<b>Degradability:</b>	Does not degrade rapidly based on quantitative tests. (Tetrahydrofuran)																				
<b>Bioaccumulation:</b>	This product and its degradation products are not known to bioaccumulate.																				

**SECTION 13 - WASTE DISPOSAL CONSIDERATIONS**

Dispose of waste and containers in compliance with applicable Federal, State, Provincial, and Local regulations. Consult disposal expert.

**SECTION 14 - TRANSPORT INFORMATION**

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

AUSTRALIAN NTC-TRANSPORT OF DANGEROUS GOODS BY ROAD & RAIL	
TDG CLASS:	FLAMMABLE LIQUID 3
SHIPPING NAME:	ADHESIVES
UN NUMBER/PACKING GROUP:	UN 1133, PG II
LIMITED QUANTITIES:	5 Liters
PACKINGS & IBCS	
PACKING IN	P001, IBC02
SPECIAL PACKING PROVISIONS:	PP1: Up to 5L per inner packaging.
PORTABLE TANKS & BULK CONTAINERS	
INSTRUCTIONS:	T4
SPECIAL PROVISIONS:	TP1 & TP8

USA DEPARTMENT OF TRANSPORTATION (DOT)	
<b>DOT Limited Quantity:</b>	Up to 5L per inner packaging, 40 kg gross weight per package.
<b>Consumer Commodity:</b>	Depending on packaging, these quantities may qualify under DOT as "ORM-D".

**SECTION 15 - REGULATORY INFORMATION**

<b>Precautionary Label Information:</b>	Highly Flammable, Irritant, Carc. Cat. 2	Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)
<b>Symbols:</b>	F, Xi	
<b>Compliance Statement:</b>	This SDS was prepared to be in accordance with: US OSHA Hazard Communication Standard 29 CFR 1910.1200 (Rev 2012) European Regulation (EC) No (EU) 2015/830 on classification, labelling and packaging of substances and mixtures	

**SECTION 16 - OTHER INFORMATION**

<b>Specification Information:</b>	
<b>Department issuing data sheet:</b>	Environmental Health & Safety
<b>e-mail address:</b>	<EHSinfo@ipscorp.com>
<b>Training necessary:</b>	Yes, training in practices and procedures contained in product literature.
<b>Reissue date / reason for reissue:</b>	3/12/2020 / Updated GHS Standard Format
<b>Intended Use of Product:</b>	Solvent Cement for PVC 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.