

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Christy's® Red Hot Vinyl Adhesives
PRODUCT USE: Solvent Cement for PVC Fencing
RESTRICTIONS ON USE: No relevant information available
SUPPLIER:

MANUFACTURER: IPS Corporation
 17109 South Main Street, Gardena, CA 90248-3127
 P.O. Box 379, Gardena, CA 90247-0379
 Tel. 1-310-898-3300 E-mail address: EHSinfo@ipscorp.com

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	
Acute Toxicity:	Category 4	Specific target organ toxicity (single exposure):	Category 3
Skin Irritation:	Category 3	Acute Toxicity:	None Known
Skin Sensitization:	NO	Chronic Toxicity:	None Known
Carcinogenicity:	Category 2	Physical	
Eye Irritation:	Category 2	Flammable Liquid:	Category 2

GHS LABEL:



Signal Word: Danger

HAZARD STATEMENTS

H225: Highly flammable liquid and vapor
 H302 + H213: Harmful if swallowed. Harmful in contact with skin.
 H316: Causes mild skin irritation
 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

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
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P403+P233: Store in a well ventilated place. Keep container tightly closed
 P501: Dispose of contents/container in accordance with local regulation

RESPONSE STATEMENTS

P301+310: IF SWALLOWED: Call a POISON CENTER and get Medical Attention
 P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P331: Do NOT induce vomiting.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P308+313: IF exposed or concerned: Get medical advice/attention.

Physical Hazards Not Otherwise Classified

May form explosive peroxides

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS	EINECS	REACH	CONCENTRATION
			Registration Number	% by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	01-2119444314-46-0000	60 - 80
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000	0 - 35
Cyclohexanone	108-94-1	203-631-1	01-2119453616-35-0000	1 - 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.
 * 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).
 # 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. *Safety Glasses and Gloves*

	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 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.
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-HOUR TLV	15-MINUTE STEL	8-HOUR PEL	15-MINUTE STEL	PEL-Ceiling	8-HOUR PEL	15-MINUTE Ceiling	15-MINUTE STEL
	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm
	Cyclohexanone	20 ppm	50 ppm	50 ppm	N/E	N/E	25 ppm	N/E	N/E

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.



GHS SAFETY DATA SHEET

Christy's® Red Hot Vinyl Adhesives

Date Revised: **MAY 2020**
Supersedes: **DEC 2019**

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, white and almond medium syrupy liquid	Odor Threshold:	0.88 ppm (Cyclohexanone)
Odor:	Ketone	Boiling Range:	56°C (133°F) to 156°C (313°F)
P.H.	Not Applicable	Evaporation Rate:	> 1.0 (BUAC = 1)
Melting/Freezing Point:	-108.5°C (-163°F) Based on first freezing component: THF	Flammability:	Category 2
Boiling Point:	67°C (151°F) Based on first boiling component: Tetrahydrofuran (THF)	Flammability Limits:	LEL: 1.1% based on Cyclohexanone UEL: 11.8%
Flash Point:	-14°C (7°F) T.C.C. based on THF	Vapor Pressure:	143 mm Hg @ 20°C (68°F): THF
Specific Gravity	0.967 @23°C (73°F)	Vapor Density:	>2.0 (Air = 1)
Solubility:	Solvent portion completely soluble in water. Resin portion separates out.	Other Data: Viscosity:	Medium bodied
Partition Coefficient n-octanol/water:	Not Available		
Auto-ignition Temperature:	321°C (609.8°F): THF		
Decomposition Temperature:	Not Applicable		
VOC Content :	When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤510 g/l.		

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	Heating may cause a fire
Stability:	Stable under normal conditions
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: Excessive exposure to vapors or spray mists can result in headache, dizziness, incoordination and loss of consciousness. Irritation of the eyes, nose, throat and lungs can also occur when exposed to high vapor concentrations. Some reports have associated repeated and prolonged occupational overexposure to solvents with permanent nervous system damage.

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. May cause defatting and irritation of skin (Dermatitis) upon prolonged or repeated

Ingestion: Swallowing can cause nausea, vomiting, diarrhea and loss of consciousness.

Chronic (long-term) effects: (MEK): Low level chronic exposure has been shown to cause decreased memory and impairment of the central nervous system.

Health Hazards Not Otherwise Classified: This material may cause defatting and irritation of skin (Dermatitis) upon prolonged or repeated contact.

Respiratory or Skin Sensitization: Not Applicable

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

Carcinogenicity: **Tetrahydrofuran (THF):** Category 2: Suspected of causing cancer

Toxicity:	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Methyl Ethyl Ketone	2737 mg/kg (rat)	6480 mg/kg (rabbit)	8 hrs. 23,500 mg/m3 (rat)
Cyclohexanone	1535 mg/kg (rat)	948 mg/kg (rabbit)	4 hrs. 8,000 PPM (rat)
Tetrahydrofuran	2842 mg/kg (rat)	> 2,000 mg/kg (rat)	3 hrs. 21,000 mg/m3 (rat)

Acute Toxicity

Calculated (ATEs)

Category 4	Acute (Inhalation) Toxicity: Vapors - Category 4	Acute (Oral) Toxicity: - Category 4	Acute (Dermal) Toxicity: - Category 4
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Specific Target Exposure Toxicity (Single Exposure):

Methyl Ethyl Ketone
Cyclohexanone
Tetrahydrofuran

Category	Route of Exposure	Affected Organs
3	Inhalation	CNS, Narcotic effects, Respiratory Tract Irritation
N/E	N/E	N/E
3	Inhalation	CNS, Narcotic effects, Respiratory Tract Irritation

Specific Target Exposure Toxicity (Repeated Exposure):

No Data Available

Aspiration Hazard: Based on available data, the classification criteria are not met.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	LC50	EC50	EC50
Acute Aquatic Toxicity	Pimephales promelas (fathead minnow); 96-hour	Daphnia magna (water flea): 48-hour	Pseudokirchneriella subcapitata (microalgae) Growth rate inhibitor
Methyl Ethyl Ketone	> 100 mg/L	> 100 mg/L	2,029 mg/l - 96 hour
Cyclohexanone	527 mg/L	> 100 mg/L	0.925 mg/l - 72 hour
Tetrahydrofuran	2160 mg/L	No Data Available	3,700 mg/l - 192 hour

Mobility in Soil: If released into the environment, this product can move rapidly through the soil.

Degradability: Not readily biodegradable

Bioaccumulation: Minimal to none.

Results of PBT and vPvB assessment: PBT: Not applicable. vPvB: Not applicable

Other adverse effects: No relevant information available.

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Dispose of waste and containers in compliance with applicable Federal, State, and Local Regulations. Consult disposal expert. Do not reuse empty containers.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: Adhesives	EXCEPTION for Ground Shipping
Hazard Class: 3	DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package.
Secondary Risk: None	Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as ORM-D
Identification Number: UN 1133	TDG INFORMATION
Packing Group: PG II	TDG CLASS: FLAMMABLE LIQUID 3
Label Required: Class 3 Flammable Liquid	SHIPPING NAME: ADHESIVES
Marine Pollutant: NO	UN NUMBER/PACKING GROUP: UN 1133, PG II

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2
Symbols: F, Xi
Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)

Compliance Statement: This SDS was prepared to be in accordance with:
US OSHA Hazard Communication Standard 29 CFR 1910.1200 (Rev 2012)
Canadian Workplace Hazardous Materials Information System (WHMIS) 2015
European Regulation (EC) No (EU) 2015/830 on classification, labelling and packaging of substances and mixtures

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 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.	
Reissue date / reason for reissue:	5/14/2020 / Updated GHS Standard Format	
Intended Use of Product:	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.