GHS SAFETY DATA SHEET

Christy's® CPVC Gray Low VOC Solvent Cement

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

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

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

PRODUCT USE: Low VOC Solvent Cement for CPVC Plastic Pipe

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	Acute Toxicity:	None Known
Skin Irritation:	Category 3			Chronic Toxicity:	None Known
Skin Sensitization:	NO				
Carcinogenicity	Category 2			**Physical**	
Eye Irritation:	Category 2			Flammable Liquid	Category 2

GHS LABEL:

Signal Word: **Danger**

HAZARD STATEMENTS	PRECAUTIONARY STATEMENTS
H225: Highly flammable liquid and vapor	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
H302 + H213: Harmful if swallowed. Harmful in contact with skin.	P261: Avoid breathing dust/fume/gas/mist/vapors/spray
H316: Causes mild skin irritation	P280: Wear protective gloves/protective clothing/eye protection/face protection
H319: Causes serious eye irritation	P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
H332: Harmful if inhaled	P403+P233: Store in a well ventilated place. Keep container tightly closed
H335: May cause respiratory irritation	P501: Dispose of contents/container in accordance with local regulation
H336: May cause drowsiness or dizziness	
H351: Suspected of causing cancer	

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.
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	Remove contact lenses, if present and easy to do. Continue rinsing.
	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 Registration Number	CONCENTRATION % by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	01-2119444314-46-0000	38 - 68
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000	0 - 18
Cyclohexanone	108-94-1	203-631-1	01-2119453616-35-0000	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.
* 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

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

Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks. *Safety Glasses and Gloves*

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 8-HOUR TLV	ACGIH 15-MINUTE STEL	OSHA 8-HOUR PEL	OSHA 15-MINUTE STEL	OSHA PEL-Ceiling	CAL/OSHA 8-HOUR PEL	CAL/OSHA 15-MINUTE Ceiling	CAL/OSHA 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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Gray, heavy syrupy liquid		
Odor:	Ketone	**Odor Threshold:**	0.88 ppm (Cyclohexanone)
P.H.	Not Applicable		
Melting/Freezing Point:	-108.5°C (-163°F) Based on first freezing component: THF	**Boiling Range:**	56°C (133°F) to 156°C (313°F)
Boiling Point:	67°C (151°F) Based on first boiling component: Tetrahydrofuran (THF)	**Evaporation Rate:**	> 1.0 (BUAC = 1)
Flash Point:	-14°C (7°F) T.C.C. based on THF	**Flammability:**	Category 2
Specific Gravity:	0.982 @23°C (73°F)	**Flammability Limits:**	**LEL:** 1.1% based on Cyclohexanone
Solubility:	Solvent portion soluble in water.		**UEL:** 11.8% based on THF
Partition Coefficient n-octanol/water:	Not Available	**Vapor Pressure:**	129 mm Hg @ 20°C (68°F)based on THF
Auto-ignition Temperature:	321°C (610°F) based on THF	**Vapor Density:**	>2 (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

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	Category 4			
Calculated (ATEs)	Acute (Inhalation) Toxicity: Vapors - Category 4		Acute (Oral) Toxicity: - Category 4	Acute (Dermal) Toxicity: - Category 4

		Category	Route of Exposure	Affected Organs
Specific Target Exposure Toxicity	***Methyl Ethyl Ketone***	3	Inhalation	CNS, Narcotic effects, Respiratory Tract Irritation
(Single Exposure):	***Cyclohexanone***	*N/E*	*N/E*	*N/E*
	Tetrahydrofuran	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
Hazard Class: 3
Secondary Risk: None
Identification Number: UN 1133
Packing Group: PG II
Label Required: Class 3 Flammable Liquid
Marine Pollutant: NO

EXCEPTION for Ground Shipping
DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package.
Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as ORM-D

TDG INFORMATION	
TDG CLASS:	FLAMMABLE LIQUID 3
SHIPPING NAME:	ADHESIVES
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

E-mail address: <EHSinfo@ipscorp.com>

All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).

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 CPVC 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.