

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Christy's® Cleaner Low VOC for PVC/CPVC/ABS/Styrene Plastic Pipe
PRODUCT USE: Low VOC Cleaner for PVC/ CPVC/ABS/Styrene 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
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				Physical
Serious Eye Irritation:	Category 2A			Flammable Liquid	Category 2

GHS LABEL:



Signal Word: **Danger**

Hazard Statements	Precautionary Statements
H225: Highly flammable liquid and vapor H302 + H213: Harmful if swallowed. Harmful in contact with skin. H316: Causes mild skin irritation H315: Causes skin irritation H319: Causes serious eye irritation H332: Harmful if inhaled H335: May cause respiratory irritation H336: May cause drowsiness or dizziness H373: May cause damage to organs through prolonged or repeated exposure	P201: Obtain special instructions before use P202: Do not handle until all safety precautions have been read and understood. P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking P233 + P403: Keep container tightly closed. Store in a well-ventilated place. P240 + P241: Ground/bond container and receiving equipment. Use explosion-proof equipment. P242 + P243: Use only non-sparking tools. Take precautionary measures against static discharge. P261: Avoid breathing dust/fume/gas/mist/vapors/spray P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves/protective clothing/eye protection/face protection. P501: Dispose of contents/ container to an approved waste disposal plant.
Response P301+310: IF SWALLOWED: Immediately call a POISON CENTER/Medical Attention P331: Do NOT induce vomiting. P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	Response P304+340: 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. P308+313: IF exposed or concerned: Get medical advice/attention.
Percentage of Ingredients Unknown of Acute Dermal Toxicity: Physical Hazards Not Otherwise Classified	0% Vapors may form explosive mixture with air.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS	EINECS	REACH	CONCENTRATION
			Registration Number	% by Weight
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000	2 - 15
Cyclohexanone	108-94-1	203-631-1	01-2119453616-35-0000	2 - 15
Acetone	67-64-1	200-662-2	01-2119471330-49-0000	60 - 95

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.
HMIS: Health 2, Flammability 3, Reactivity 0, PPE B
NFPA: 0-Minimal, 2-Slight, 3-Moderate, 4- Severe
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	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
	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
	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.



GHS SAFETY DATA SHEET

Christy's® Cleaner Low VOC for PVC/CPVC/ABS/Styrene Plastic Pipe

Date Revised: MAY 2020
Supersedes: MAR 2015

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, thin liquid	Odor Threshold:	0.88 ppm (Cyclohexanone)
Odor:	Ethereal	Boiling Range:	56°C (133°F) to 156°C (313°F)
Ph:	Not Applicable	Evaporation Rate:	> 1.0 (BUAC = 1)
Melting/Freezing Point:	-95°C (-139°F) Based on first freezing component: Acetone	Flammability:	Category 2
Boiling Point:	56°C (133°F) Based on first boiling component: Acetone	Flammability Limits:	LEL: 1.1% based on Cyclohexanone UEL: 12.8% based on Acetone
Flash Point:	-20°C (-4°F) TCC based on Acetone	Vapor Pressure:	190 mm Hg @ 20°C (68°F) Acetone
Specific Gravity:	0.791 @23°C (73°F)	Vapor Density:	>2.0 (Air = 1)
Solubility:	Solvent portion soluble in water. Resin portion separates out.	Other Data: Viscosity:	Water-thin
Partition Coefficient n-octanol/water:	Not Available		
Auto-ignition Temperature:	420°C (788°F): Cyclohexanone		
Decomposition Temperature:	Not Applicable		
VOC Content:	When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤ 550 g/l.		

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	Normally stable.
Reactivity:	Heating may cause a fire
Hazardous decomposition products:	None in normal use. When forced to burn, this product gives off oxides of carbon and smoke.
Conditions to avoid:	High temperatures. Open flames, sparks, static discharge, heat and other ignition sources.
Incompatible Materials:	Oxidizing agents (e.g. peroxides).

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:	(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.
Aspiration Hazard:	Not Applicable
Respiratory or Skin Sensitization:	Not Applicable

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

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

Specific Target Exposure Toxicity (Single Exposure):	Category	Route of Exposure	Affected Organs
Methyl Ethyl Ketone	3	Inhalation	CNS, Narcotic effects, Respiratory Tract Irritation
Cyclohexanone	N/E	N/E	N/E
Acetone	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

Acute Aquatic Toxicity	Pimephales promelas (fathead minnow):	Daphnia magna (water flea):	Pseudokirchneriella subcapitata (microalgae)
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

Mobility in Soil: If released into the environment, this product can move rapidly through the soil.
Degradability: Does not degrade rapidly based on quantitative tests.
Bioaccumulation: This product and its degradation products are not known to bioaccumulate..
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, Provincial, and Local regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name:	Flammable Liquid, n.o.s. (Acetone)
Hazard Class:	3
Secondary Risk:	None
Identification Number:	UN 1993
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: Flammable Liquid, n.o.s. (Acetone)
UN NUMBER/PACKING GROUP: UN 1993, PG II

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2 **Ingredient Listings:** USA TSCA, Europe EINECS, Canada DSL, Australia F, Xi 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:		All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).
Department issuing data sheet:	IPS, Safety Health & Environmental Affairs	
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:	Low VOC Cleaner for PVC/ CPVC/ABS/Styrene 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.