

SAFETY DATA SHEET

Christy's® CPVC Gray Low VOC Solvent Cement

SYNONYMS:

Date Revised: MAY 2016 Supersedes: MAR 2015

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

SUPPLIER and MANUFACTUREF T Christy Enterprises, Inc.

655 East Ball Road, Anaheim, CA 92805-5910

Tel. 1-714-507-3300 (North America) Tel. 1-714-507-3300 (International)

EMERGENCY: Transportation/Medical issues: Tel. 800.535.5053 INFOTRAC

SECTION 2 - HAZARDS IDENTIFICATION

| Health En Acute Toxicity: Category 4 Acute Toxicity: Skin Corrosion/Irritation: Category 3 Chronic Toxicity: Carcinogenicity Category 2 Category 2 | vironmental None Known None Known | Physical Flammable Liquid/Aerosol/Gas: Cate | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------|--|--|--|--|--|
| Skin Corrosion/Irritation: Category 3 Chronic Toxicity: | | Flammable Liquid/Aerosol/Gas: Cate | | | | | | |
| | None Known | | egory 2 | | | | | |
| Carcinogenicity Category 2 | | | | | | | | |
| | | | | | | | | |
| Eye: Category 2A | | | | | | | | |
| GHS LABEL | $\wedge \wedge$ | WHMIS CLASSIFICATION: CONTROLLED P | RODUCT | | | | | |
| Signal Word: DANGER | $\langle \cdot \rangle \langle \cdot \rangle$ | CLASS B, DIVISION 2 CLASS D, DIVISI | ON 2B | | | | | |
| | \vee \vee | | | | | | | |
| Hazard Statements Pred | cautionary Statements (See | Section 15 for all advisory and required precaution | ns) | | | | | |
| H225 Highly flammable liquid and vapor P201 Obtain special in: | P201 Obtain special instructions before use. | | | | | | | |
| H302 Harmful if swallowed P202 Do not handle un | 2 Harmful if swallowed P202 Do not handle until all safety precautions have been read and understood | | | | | | | |
| H319 Causes serious eye irritation P210 Keep away from | P210 Keep away from heat, hot surfaces, open flames and other ignition sources. No smoking | | | | | | | |
| H332 Harmful if inhaled P261 Avoid breathing f | P261 Avoid breathing fumes/gas/vapours | | | | | | | |
| H335 May cause respiratory irritation P264 Wash hands tho | P264 Wash hands thoroughly after handling. | | | | | | | |
| H336 May cause drowsiness or dizziness P270 Do not eat, drink | P270 Do not eat, drink or smoke when using this product. | | | | | | | |
| H351 Suspected of causing cancer P271 Use only outdoors or in a well-ventilated area. | | | | | | | | |
| P280 Wear protective | P280 Wear protective gloves/ protective/ clothing/ eye protection/ face protection | | | | | | | |
| P330 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 SWALL | 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 conte | P501 Dispose of contents/container in accordance with local regulations. | | | | | | | |

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

| | CAS# | EINECS # | REACH | CONCENTRATION |
|---------------------------------------------|----------|-----------|-------------------------|---------------|
| | | | Pre-registration Number | % by Weight |
| Chlorinated Polyvinyl Chloride Resin (CPVC) | NON/HAZ | | | 10-20 |
| Tetrahydrofuran (THF)** (Stabilized) | 109-99-9 | 203-726-8 | 05-2116297729-22-0000 | 38-68 |
| Methyl Ethyl Ketone (MEK)* | 78-93-3 | 201-159-0 | 05-2116297728-24-0000 | 0-18 |
| Cyclohexanone | 108-94-1 | 203-631-1 | 05-2116297718-25-0000 | 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. *This chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).

| | o the reporting requirements | | | ,, . iai i i i i i | | annty ragin to ra | | | o,. |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|--------------------|-----------------|-------------------|----------------|---------------|----------------------------|
| SECTION 4 - FIRS | T 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. G | ve 1 or 2 glasse | s of water c | or milk to dilute | . Do not indu | uce vomiting. S | eek medical | advice imme | ediately. |
| SECTION 5 - FIRE | FIGHTING MEASURE | S | | | | | | | |
| Suitable Extinguishing | | powder, carbon | dioxide gas | , foam, Halon | water fog. | | HMIS | NFPA | 0-Minimal |
| Unsuitable Extinguish | ng Media: Water spray | or stream. | | | | Health | 2 | 2 | 1-Slight |
| Exposure Hazards: | | xide, carbon dio | | | | Flammability | 3 | 3 | 2-Moderate |
| Combustion Products: | | xide, carbon dio | | | | Reactivity | 1 | 1 | 3-Serious |
| Protection for Firefigh | ers: Self-containe | d breathing appa | aratus or ful | I-face positive | pressure airl | ine masks. | | | 4-Severe |
| SECTION 6 - ACC | IDENTAL RELEASE | IEASURES | | | | | | | |
| Personal precautions: | Keep away fr | om heat, sparks | and open f | lame. | | | | | |
| | Provide suffic | ient ventilation, | use explosi | on-proof exha | ust ventilation | n equipment or v | wear suitable | respiratory | protective equipment. |
| | Prevent conta | act with skin or e | eyes (see se | ection 8). | | | | | |
| Environmental Precaut | | uct or liquids cor | | | | | | water course | е. |
| Methods for Cleaning u | | sand or other ir | | | ransfer to a | closable metal o | container | | |
| Materials not to be use | d for clean up: | Aluminum or pla | astic contair | iers | | | | | |
| SECTION 7 - HAN | DLING AND STORAG | E | | | | | | | |
| Handling: Avoid breath | ing of vapor, avoid contact w | ith eyes, skin ar | nd clothing. | | | | | | |
| Keep away f | rom ignition sources, use onl | y electrically gro | unded hand | lling equipmen | t and ensure | adequate venti | lation/fume e | xhaust hood | ds. |
| Do not eat; o | Irink or smoke while handling | | | | | | | | |
| Storage: Store in ven | ilated room or shade below 2 | 7°C (80°F) and | away from o | direct sunlight | | | | | |
| | rom ignition sources and inco | | | | | | ompounds, st | rong oxidize | ers and isocyanates. |
| Follow all pre | ecautionary information on co | ntainer label, pro | oduct bulleti | ns and solven | t cementing I | iterature. | | | |
| SECTION 8 - PRE | CAUTIONS TO CONT | ROL EXPOS | SURE / P | ERSONAL | PROTEC | TION | | | |
| EXPOSURE LIMITS: | Component | ACGIH TLV A | CGIH STEL | OSHA PEL | OSHA STEL: | | | | |
| | Tetrahydrofuran (THF) #,## | 50 ppm skin | 100 ppm | 200 ppm | 250 ppm | # Mfg. Rec | ommended A | Allowable Ex | posure Limit (AEL): 25 ppm |
| | Methyl Ethyl Ketone (MEK) | 200 ppm | 300 ppm | 200 ppm | 300 ppm | ## Mfg. Re | commended | STEL: 75 p | pm |
| | Cyclohexanone | 20 ppm skin | | 50 ppm | | | | | |
| Engineering Controls: | If ventilated cabinet, enclos | ure or fume hoo | d is necess | ary, average a | irflow should | be at least 100 | FPM (50.8 c | m/sec). | |
| Monitoring: | Maintain breathing zone air | oorne concentra | tions below | exposure limit | s. | | | | |
| Personal Protective Eq | uipment (PPE): | | | | | | | | |
| Eye Protection: | Avoid contact with eyes, we | ar splash proof | chemical go | ggles, face sh | ield, safety g | lasses (spectad | cles) with bro | w guards ar | nd side shields, |
| | etc. as may be appropriate | for the exposure | | | | | | | |
| Skin Protection: | Prevent contact with the sk | n as much as po | ossible. Poly | ethylene or P | VA coated ru | bber gloves sho | ould be used | for frequent | t immersion. |
| | Use of latex/nitrile surgical | | | | hould provide | e adequate prot | ection when | normal adhe | esive application |
| | practices and procedures a | | | | | | | | |
| Respiratory Protection | Prevent inhalation of the so | | | | | | | | |
| | exhaust ventilation to remove | | | | | | | | |
| | With normal use, the Expos | ure Limit Value | will not usua | ally be reached | I. When limits | s approached, ι | use respirator | ry protection | equipment. |

| SECTION 9 - PHY | SICAL AND | CHEMICAL PROPE | RTIES | | | | | |
|-------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------|----------------------------|----------------|--------------------------------|------------------------|
| Appearance: Odor: | | Gray, heavy syrupy liquid Ethereal | | | Odor Thresh | nold: | N/D | |
| P.H. | | Not Applicable | | | | ioiu. | N/D | |
| Melting/Freezing Pe | pint: | -108.5°C (-163°F) Based o | | | Boiling Ran | | | to 67°C (151°F) |
| Boiling Point: Flash Point: | | 67°C (151°F) Based on firs -14°C (7°F) T.C.C. based of | | | Evaporation Flammabilit | | > 1.0 (BUAC | = 1) |
| Specific Gravity | | @23°C ± 2° (73°F ± 3.6°) | | | Flammabilit | | Category I LEL: 2% | |
| Solubility: | | Solvent portion completely | | | | , | UEL: 11.8% | |
| Partition Coefficien | | ater: Not Available | | | Vapor Press | | | 20°C (68°F): THF |
| Auto-ignition Temp | | 321°C (609.8°F): THF | | | Vapor Densi | | 2.49 (Air = 1) | |
| Decomposition Ten VOC Content : | nperature: | Not Applicable When applied as directed, | per SCAOMD Rule 1168 T | | Other Data: SA VOC cont | | Heavy bodied | |
| SECTION 10 - ST | ABILITY AN | | | | | 011110. = 400 | 9/1. | |
| Stability: | | Stable | | | | | | |
| Hazardous decomp | osition produ | | al use. When forced to bu oride (HCI) and smoke. | rn, this product | gives off car | bon monoxid | e (CO), carbon | dioxide (CO2), |
| Conditions to avoid | ı. | | om heat, sparks, open flam | e and other ion | ition sources | | | |
| Incompatible Mater | | | monia, inorganic acids, chl | - | | | d isocyanates. | |
| SECTION 11 - TO | XICOLOGIO | CAL INFORMATION | • | | | | • | |
| Likely Routes of Exposu | | Inhalation, Eye and Skin C | ontact | | | | | |
| Acute symptoms and eff | | | | | | | | |
| Inhalation: Eye Contact: | | exposure may result in nause ly uncomfortable. Overexpo | | | | | | |
| Skin Contact: | | t may remove natural skin o | | | | | | ntact with the liquid. |
| Ingestion: | • | ausea, vomiting, diarrhea an | U U | | y occur with | protoriged oc | indot. | |
| Chronic (long-term) effe | | None known to humans | | | | | | |
| Carinogenicity: | | | | | | | | |
| Tetrahydrofu | uran (109-99-9) | | | | | | | |
| Cyclohexan | ACGIH: A3- Co one (108-94-1) | nfirmed Animal Carcinogen with | Unknow Relevance to Humans | | | | | |
| | ACGIH: A3- Co | nfirmed Animal Carcinogen with | Unknow Relevance to Humans | | | | | |
| Toxicity: | | LD50 | | LC50 | | | | |
| Tetrahydrofuran (THF) | | Oral: 2880 mg/kg (rat) | l 0 10 mm/lim (makhit) | Inhalation 3 h | | | | |
| Methyl Ethyl Ketone (ME Cyclohexanone | :K)_ | Oral: 3.98 g/kg (rat), Derma Oral: 1900 mg/kg (rat), Der | | Inhalation 4 h Inhalation LC | | | •) | |
| Reproductive E | ffects | Teratogenicity | Mutagenicity | Embryo | | | on to Product | Synergistic Product |
| May cause embryofe | | Not Applicable | Not Available | Not App | licable | Not A | pplicable | Not Available |
| SECTION 12 - EC Ecotoxicity: | Category IV | INFORMATION | | | | | | |
| Mobility: | | e, emission of volatile organi | c compounds (VOC's) to th | e air takes plac | e. Typically | at a rate of ≤ | 490 Grams/Lite | er. |
| | | adverse effects include pos | sible ground water contam | ination from rele | ease to soil, | sewers, drain | s or water cour | se. |
| Degradability: | Biodegradabl | | | | | | | |
| BioAccumulation: | Minimal to no | | ONE | | | | | |
| | | DSAL CONSIDERATI Insult disposal expert. Can | | d incineration. | Mav be allow | ed to drv and | disposed of as | trash. |
| | | itted to enter drains, sewers | | | | | | |
| SECTION 14 - TRA | | | | | | | | |
| DOT, IATA, ADR, IMO/IM | | | | tion of comont i | n containara | of loop then | ono litor mov ha | |
| Proper Shipping Name Hazard Class: | | 3 | EXCEPTION: Case quanti shipped as LIMITED QL | | | | | ; |
| Secondary Risk | | | May be shipped by air as (| | | | | |
| Identification Number: | | UN 1133 | properly packaged, labeled | | , | | | |
| Packing Group: | | 11 | TDG INFOR | | | | | |
| Label Required: | | Flammable Liquid | TDG CLASS | | | | | |
| Marine Pollutant: | | NO | SHIPPING N UN NUMBEI | | ADHESIVES 1133, PG II | (TETRAHY | JROFURAN) | |
| SECTION 15 - RE | GULATOR | | 0111011122 | | | | | |
| | | Highly Flammable, Irritant | Ingredient Li | stings: USA TS | SCA, Europe | EINECS, Ca | nada DSL, Aus | tralia |
| Symbols: | | F, Xi | | AICS, Kor | ea ECL/TCC | L, Japan MI | TI (ENCS) | |
| Risk Phrases: | R-11 Highly | | | D 00/07/00 I | | | | |
| | | I by inhalation in contact with skin. | | R-36/37/38 In R67 Vapours | | | y system and sl d dizziness | kin. |
| | | if swallowed. | | | may cause u | | | |
| Safety Phrases: | | t of reach of children. | | S-24/25 Avoid | 1 contact with | skin and ov | 85 | |
| oalety rillases. | | ntainer tightly closed when r | iot in use. | S-24/25 AV0i S-29 Do not e | | | | |
| | | ntainer in a well-ventilated p | | S-37 Wear su | | | | |
| | S-15/16 Kee | p away from heat and sourc | | S-45 If seeking | g medical ad | vice show ph | ysician label or | SDS. |
| | S-23 Do not I | preathe vapor. | | S-46 Use only | y in well vent | lated areas. | | |
| SECTION 16 - OT | HER INFOR | MATION | | | | | | |
| Specification Inform Department issuin | nation: | Environmental Hea | lth & Safety | All ingredien | ts are compl | iant with the | requirements of | the European |
| e-mail address: | g aata sileet. | <ehsinfo@tchristy< td=""><td></td><td></td><td></td><td></td><td>lazardous Subs</td><td></td></ehsinfo@tchristy<> | | | | | lazardous Subs | |
| Training necessary | : | Yes, training | in practices and procedures | s contained in p | roduct literat | ure. | | |
| Reissue date / reas | on for reissue | : MAY 2016/ L | pdated Information | | | | | |
| Intended Use of Pro | oduct: | Adhesive for | bonding/cementing PVC pla | astic pipe and f | ittings | | | |
| This product is intended for | or use by skiller | d individuals at their own risk | The information contained | herein is base | d on data co | nsidered acc | urate based on | current state of |

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.