ACCESSORIES Cements - 45 CALLIBRE PVC CEMENT





General description

Hydroseal[®] Canada 45 CALLIBRE PVC CEMENT is a clear or gray, extra heavy bodied, medium setting, high strength PVC solvent cement for all classes and schedules of tube and fittings, including Schedule 80, with interference fit through 12 inch diameter and non-pressure Applications up to 18 inch diameter. It has good gap filling properties and is recommended for solvent cementing joints where a sizable gap exists between tube and fitting – e.g. large tube sizes – and when more working time is required in warm weather.

Application

Hydroseal[®] Canada 45 CALLIBRE PVC CEMENT can be for use on all types of PVC plastic tube Applications, Type I and Type II. It is suitable for use with potable water pressure systems, irrigation, turf, conduit, industrial tube Applications, sewer, drain, waste and vent systems.

Detailed directions on making solvent cemented joints are printed on the container label. An installation DVD/CD covering solvent cementing is available. It not only describes the basic principles of solvent cementing, but also covers the handling, storage and use of our products. It is highly recommended that the installer review the instructions supplied by the tube and fitting manufacturer.

Notes:

NSF

Hydroseal[®] Canada solvent cements must never be used in a PVC system using or being tested by compressed air or gases; including air-over-water booster.

Standards and certification listings

- Meets ASTM D 2564 Standard.
 - Listed by NSF International for compliance with ASTM D 2564, NSF/ANSI Standard 14 for use on potable water, drain, waste, vent and sewer Applications.

Specifications

Color: Resin: Specific Gravity: Brookfield Viscosity: Clear or Gray PVC 0.947 ± 0.04 Clear: Minimum 1,600 CP @ 73 ± 2°F (23 ± 1°C) Gray: Minimum 2,000 CP @ 73 ± 2°F (23 ± 1°C)

Shipping:

For One Liter and Above Proper Shipping Name: Adhesive Hazard Class: 3 Identification Number: UN 1133 Packing Group: II Label Required: Flammable Liquid For Less than One Liter Proper Shipping Name: Consumer Commodity Hazard Class: ORM-D

Shelf life

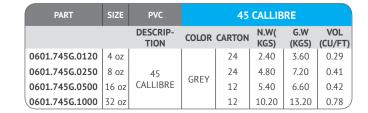
3 years in tightly sealed containers. The date code of manufacture is stamped on the bottom of the container. Stability of the product is limited by the evaporation of the solvent when the container is opened. Evaporation of solvent will cause the cement to thicken and reduce its effectiveness. Adding of thinners to change viscosity is not recommended and may significantly change the properties of the cement.

Quality assurance

Hydroseal[®] Canada 45 CALLIBRE PVC CEMENT is carefully evaluated to assure that consistent high quality is maintained. Fourier transform infrared spectroscopy, gas chromatography, and additional in depth testing ensures each batch is manufactured to exacting standards. A batch identification code is stamped on each can and assures traceability of all materials and processes used in manufacturing this solvent cement.

Availability

PART	SIZE	PVC	45 CALLIBRE				
		DESCRIP- TION	COLOR	CARTON	N.W(KGS)	G.W (KGS)	VOL (CU/FT)
0601.745C.0120	4 oz			24	2.40	3.60	0.29
0601.745C.0250	8 oz	45 CALLIBRE	CLEAR	24	4.80	7.20	0.41
0601.745C.0500	16 oz		CLEAR	12	5.40	6.60	0.42
0601.745C.1000	32 oz			12	10.20	13.20	0.78





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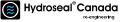




SECTION I - PRODUCT AND COMPANY IDENTIFICATION PRODUCT NAME PVC 45 Callibre for PVC Plastic Tube PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Tube HYDROSEAL CANADA INCORPORATED SLIPPI IFR-MANUFACTURER: 108 West 13th Street. Wilmington, New Castle. Delaware - 19801 United States of America. Phone: +1-302-298-0822, Fax: +1-302 -298-0824 EMERGENCY: Transportation: CHEMTEL Tel. 800.255-3924, 813-248-0585 (International) Medical Tel. 800.451.8346, 760.602.8703 3E Company (International) **SECTION 2 - HAZARDS IDENTIFICATION** GHS CLASSIFICATION: Health Environmental Physical Acute Toxicity: Category 4 Acute Toxicity: None Known Flammable Liquid Category 2 Skin Irritation Category 3 Chronic Toxicity: None Known Skin Sensitization: NO Category 2B Eve: GHS LABEL: Signal Word: WHMIS CLASSIFICATION: CLASS B. DIVISION 2 OR Х Danger Hazard Statements **Precautionary Statements** H225: Highly flammable liguid and vapor P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking H319: Causes serious eye irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray H332: Harmful if inhaled P280: Wear protective gloves/protective clothing/eye protection/face protection H335: May cause respiratory irritation 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 H336: May cause drowsiness or dizziness EUH019: May form explosive peroxides P501: Dispose of contents/container in accordance with local regulation SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS CAS# EINECS # **REACH Pre-registration Number CONCENTRATION % by Weight** Tetrahydrofuran (THF) 109-99-9 203-726-8 05-2116297729-22-0000 25 - 70 Methyl Ethyl Ketone (MEK) 78-93-3 201-159-0 05-2116297728-24-0000 5 - 36 05-2116297718-25-0000 108-94-1 203-631-1 Cvclohexanone 10 - 25 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. Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Skin contact: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Inhalation: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately. Ingestion **SECTION 5 - FIREFIGHTING MEASURES** HMIS NFPA 0-Minimal Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog. Health 2 2 1-Slight Unsuitable Extinguishing Media: Water spray or stream. Exposure Hazards: Inhalation and dermal contact Flammability 3 3 2-Moderate . Combustion Products Oxides of carbon, hydrogen chloride and smoke Reactivity 0 0 3-Serious PPE В 4-Severe **Protection for Firefighters:** Self-contained breathing apparatus or full-face positive pressure airline masks. **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. Store in ventilated room or shade below 44°C (110°F) and away from direct sunlight. Storage: Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, 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 TLV ACGIH STEL OSHA PEL OSHA STEL Tetrahvdrofuran (THF) 200 ppm 50 ppm 100 ppm Methyl Ethyl Ketone (MEK) 200 ppm 300 ppm 200 ppm Cvclohexanone 20 ppm 50 ppm 50 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.



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Gray or clear, heavy syrupy liquid	
Odor:	Ketone	Odor Thre
pH:	Not Applicable	
Melting/Freezing Point:	-108.5°C (-163.3°F) Based on first melting component: THF	Boiling Ra
Boiling Point:	66°C (151°F) Based on first boiling component: THF	Evaporatio
Flash Point:	-20°C (-4°F) T.C.C. based on Acetone	Flammabi
Specific Gravity:	0.963 @23°C (73°F)	Flammabi
Solubility:	Solvent portion soluble in water. Resin portion separates out.	
Partition Coefficient n-octanol/wate	er: Not Available	Vapor Pres
Auto-ignition Temperature:	321°C (610°F) based on THF	Vapor Der
Decomposition Temperature:	Not Applicable	Other Data
VOC Content:	When applied as directed, per SCAQMD Rule 1168, Test Method 316A,	
	VOC content is: $\leq 510 \text{ g/l}$.	

reshold:

Boiling Range:
Evaporation Rate:
Flammability:
Flammability Limits:

essure: ensity: ata: Viscosity: 0.88 ppm (Cyclohexanone)

66°C (151°F) to 156°C (313°F) > 1.0 (BUAC = 1)Category 2 LEL: 1.1% based on Cyclohexanone UEL: 11.8% based on THF 129 mm Hg @ 20°C (68°F)based on THF >2.0 (Air = 1) Heavy bodied

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SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable
Hazardous decomposition products:	None in normal use. When forced to burn, this product gives off oxides of carbon 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 C	Inhalation, Eye and Skin Contact				
Acute symptoms and effects:						
Inhalation:	Severe overexposure may	Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.				
Eye Contact:	Vapors slightly uncomfort	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 remov	Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.				
Ingestion:	May cause nausea, vomiti	May cause nausea, vomiting, diarrhea and mental sluggishness.				
Chronic (long-term) effects:	None known to humans	None known to humans				
Toxicity:	LD ₅₀	LD _{en} LC _{sn}				
Tetrahydrofuran (THF)	Oral: 2842 mg/kg (rat)			Inhalation 3 hrs. 21,000 mg/m ³ (rat)		
Methyl Ethyl Ketone (MEK)	Oral: 2737 mg/kg (rat), De	Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)		Inhalation 8 hrs. 23,500 mg/m ³ (rat)		
Cyclohexanone	Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Inhalation 4 hrs. 8,000 PPM (rat)			hrs. 8,000 PPM (rat)		
Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products	
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established	

SECTION 12 - ECOLOGICAL INFORMATION

Mobility: Degradability:	None Known In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of <= 510 g/l. Biodegradable Minimal to none.
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SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION

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

UN NUMBER/PACKING GROUP:

UN 1133, PG II

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Symbols:	Highly Flammable, Irritant F, Xi	Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)
Risk Phrases:	R11: Highly flammable.	
	R20: Harmful by inhalation.	R66: Repeated exposure may cause skin dryness or cracking.
	R36/37: Irritating to eyes and respiratory system.	R67: Vapors may cause drowsiness and dizziness.
Safety Phrases:	S9: Keep container in a well-ventilated place.	S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	S16: Keep away from sources of ignition - No smoking.	S33: Take precautionary measures against static discharges.
	S25: Avoid contact with eyes.	S46: If swallowed, seek medical advise immediately and show this container or label.
SECTION 16 - OTHER INFORM	MATION	
Specification Information:		

Department issuing data sheet: E-mail address:	Hydroseal Laboratories info@hydroseal.ca	All ingredients are compliant with the requirements of the European
Training necessary: Reissue date / reason for reissue: Intended Use of Product:	Yes, training in practices and procedures contained in product literature. 12/14/2011 / Updated GHS Standard Format Solvent Cement for PVC Plastic Tube	Directive on RoHS (Restriction of Hazardous Substances).

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.

