

General description

Hydroseal® Canada 50 CALLIBRE MONSTER PVC CEMENT is a gray super heavy bodied, slow setting, thixotropic (paste-like), high strength PVC solvent cement for all classes and schedules of tube and fittings with interference fit through 24 inch diameter, including Schedule 80.

Application

Hydroseal® Canada 50 CALLIBRE MONSTER PVC CEMENT is for use on all types of PVC plastic tube Applications, Type I and Type II. It is ideally suited for the fabrication of PVC fittings (particularly large diameter) as it has excellent gap filling properties. The slow set time also makes this cement outstanding for use with large diameter tube in hot weather. Hydroseal® Canada 50 CALLIBRE MONSTER PVC CEMENT is suitable for use with potable water pressure systems, irrigation, 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:

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: Gray Resin: **PVC** Specific Gravity: 0.984 ± 0.04 Brookfield Viscosity: Minimum 10.000 CP

 $@73 \pm 2^{\circ}F(23 \pm 1^{\circ}C)$

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 50 CALLIBRE MONSTER 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	50 CALLIBRE MONSTER				
		DESCRIPTION	COLOR	CARTON	N.W(KGS)	G.W (KGS)	VOL (CU/FT)
0601.750G.0120	4 oz	50 CALLIBRE MONSTER	GREY	24	2.70	4.00	0.29
0601.750G0250	8 oz			24	5.40	8.00	0.41
0601.750G0500	16 oz			12	6.00	7.30	0.42
0601.750G1000	32 oz			12	11.30	14.60	0.78





ACCESSORIES

SAFETY DATA SHEET - PVC 50 CALLIBRE FOR PVC PLASTIC TUBE



SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME PVC 50 Callibre for PVC Plastic Tube PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Tube

SUPPLIER:

HYDROSEAL CANADA INCORPORATED 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	
Skin Irritation: C	Category 4 Category 3 NO Category 2B	Acute Toxicity: Chronic Toxicity:	None Known None Known	Flammable Liquid	Category 2

GHS LABEL:











Signal Word: Danger

WHMIS CLASSIFICATION:

CLASS B. DIVISION 2

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Hazard Statements	Precautionary Statements			
H225: Highly flammable liquid and vapor H319: Causes serious eye irritation H332: Harmful if inhaled H335: May cause respiratory irritation H336: May cause drowsiness or dizziness	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			
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	45 - 60
Cyclohexanone	108-94-1	203-631-1	05-2116297718-25-0000	9 - 18
Acetone	67-64-1	200-662-2	05-2116297713-35-0000	3 - 11

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 (40CFR3 72). # 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 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.

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
	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	
	Cyclohexanone	20 ppm	50 ppm	50 ppm	
	Acetone	500 ppm	750 ppm	1000 ppm	

Engineering Controls: Use local exhaust as needed

Monitoring: Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):

Storage:

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. Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion.

Skin Protection: 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.







Hydroseal® Canada



SAFETY DATA SHEET - PVC 50 CALLIBRE FOR PVC PLASTIC



advanced fluidity

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White or gray, extra heavy syrupy liquid

Odor: pH: Not Applicable

-108.5°C (-163.3°F) Based on first melting component: THE Melting/Freezing Point: Boiling Point: 56°C (133°F) Based on first boiling component: Acetone

-20°C (-4°F) T.C.C. based on Acetone

Specific Gravity: 0.976 @23°C (73°F)

Solubility: Solvent portion

Partition Coefficient n-octanol/water: Not Available Solvent portion soluble in water. Resin portion separates out.

Auto-ignition Temperature: 321°C (610°F) based on THF

Not Applicable **Decomposition Temperature:** VOC Content: When applied as directed, per SCAQMD Rule 1168, Test Method 316A,

VOC content is: <= 510 g/l.

Odor Threshold: 0.88 ppm (Cyclohexanone)

56°C (133°F) to 156°C (313°F) Boiling Range:

Evaporation Rate: > 1.0 (BUAC = 1) Flammability: Category 2

Flammability Limits: LEL: 1.1% based on Cyclohexanone UEL: 11.8% based on THF

129 mm Hg @ 20°C (68°F)based on THF Vapor Pressure:

Vapor Density: >2.0 (Air = 1)Other Data: Viscosity: Extra heavy bodied

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.

Keep away from heat, sparks, open flame and other ignition sources. Conditions to avoid:

Incompatible Materials: Oxidizers, strong acids and bases, amines, ammonia

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Acute symptoms and effects:

Inhalation, Eve and Skin Contact

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. May cause nausea, vomiting, diarrhea and mental sluggishness. Ingestion:

Chronic (long-term) effects: None known to humans

LD₅₀ Oral: 2842 mg/kg (rat) Tetrahydrofuran (THF)

Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Methyl Ethyl Ketone (MEK) Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Cyclohexanone

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: In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of \leq 510 g/l.

Degradability: Biodegradable Bioaccumulation: Minimal to none

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Adhesives **Proper Shipping Name:** Hazard Class: Secondary Risk: None Identification Number: **UN 1133**

Packing Group: PG II Label Required: Class 3 Flammable Liquid

Marine Pollutant: NO **EXCEPTION for Ground Shipping**

Inhalation 3 hrs. 21,000 mg/m³ (rat)

Inhalation 8 hrs. 23,500 mg/m3 (rat)

Inhalation 4 hrs. 8,000 PPM (rat)

DOT Limited Quantity Up to 5L per inner packaging, 30 kg gross weight per package.

Depending on packaging, these quantities may qualify under DOT as "ORM-D" Consumer Commodity:

All ingredients are compliant with the requirements of the European

Directive on RoHS (Restriction of Hazardous Substances).

TDG INFORMATION

FLAMMABLE LIQUID 3 TDG CLASS: SHIPPING NAME: **ADHESIVES** UN NUMBER/PACKING GROUP: UN 1133, PG II

SECTION 15 - REGULATORY INFORMATION

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia **Precautionary Label Information:** Highly Flammable, Irritant

Symbols: AICS, Korea ECL/TCCL, Japan MITI (ENCS) R11: Highly flammable. Risk Phrases:

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

S46: If swallowed, seek medical advise immediately and show this container or label. S25: Avoid contact with eyes.

SECTION 16 - OTHER INFORMATION

Specification Information:

. Department issuing data sheet: Hydroseal Laboratories E-mail address:

info@hydroseal.ca Training necessary: Yes, training in practices and procedures contained in product literature.

Reissue date / reason for reissue: 12/14/2011 / Updated GHS Standard Format Solvent Cement for PVC Plastic Tube Intended Use of Product:

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.



