



# MATERIAL SAFETY DATA SHEET

**BHARAT PIPES**

Date revised: Jan-2019

Supersedes: Jan-2019

## PVC Heavy Duty Solvent cement for PVC Pipes UPTO 12" (300mm)



### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b>	PVC HIGH PRESSURE SOLVENT CEMENT FOR PVC PIPES AND FITTINGS UPTO 12" (300 mm)	<b>MANUFACTURER:</b>	Bharat Pipe Industries
<b>PRODUCT USE:</b>	Low VOC Solvent Cement for PVC Plastic pipes		H No. 1503/R13, Gaokar House, Sector - 26, Vashi Navi Mumbai, Maharashtra, India - 400703
	Product code - APH		bharatpipesin@gmail.com
	Meets SCAQMD Rule 1168/316A.		www.atoot.net
	Compliant with LEED (Leadership in Energy and Environment Design).		
	Use before 1.5 years of Manufacturing date on the bottom of can		
	Recommended for SWR/Conduit and pressure PVC pipe upto 12" (300mm)		
	Drain, waste, vent pipe and potable water.		
<b>EMERGENCY:</b>	Call +91-7045430101		

### SECTION 2 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Grey/Clear Syrupy liquid	<b>Odor Threshold:</b>	0.88 ppm (Cyclohexanone)
<b>Odor:</b>	Ketone	<b>Boiling Range:</b>	66°C (151°F) to 156°C (313°F)
<b>pH:</b>	Not applicable	<b>Evaporation Rate:</b>	>1.0 (BUAC = 1)
<b>Melting/Freezing Point:</b>	-108.5°C (-163.3°F) Based on first melting component: THF	<b>Flammability:</b>	Category 2
<b>Boiling Point:</b>	66°C (151°F) Based on the first boiling component: THF	<b>Vapor Pressure:</b>	129 mm Hg @ 20°C (68°F) Thf
<b>Flash Point:</b>	-20°C (-4°F) TCC based on THF	<b>Vapor Density:</b>	>2 (Air=1)
<b>Specific Gravity:</b>	0.93 @ 23°C (73°F) approximately .may vary	<b>Other data:</b>	Heavy Duty
<b>Solubility:</b>	Solvent portion soluble in water, Resin portion may separate out.		
<b>Partition Coefficient n-octanol/water:</b>	Not Available		
<b>Auto - Ignition Temperature:</b>	321°C (610°F) Based on Thf		
<b>Decomposition Temperature:</b>	Not applicable		
<b>VOC Content:</b>	When applied as directed, per SCAQMD Rule 1168, Test method 316A, VOC content is: <490 g/l		

### SECTION 3 - HAZARDS IDENTIFICATION

<b>GHS Label:</b>	 	<b>Signal Word: Danger</b>
<b>Hazard Statements</b>	<ul style="list-style-type: none"> <li>- Highly flammable liquid and vapour</li> <li>- Cause serious eye irritation</li> <li>- Flammable liquid and vapour</li> <li>- Harmful if inhaled</li> <li>- May cause respiratory irritation</li> <li>- May cause drowsiness or dizziness</li> <li>- May form explosive peroxides</li> <li>- Repeated exposure may cause skin dryness or cracking</li> </ul>	
	<ul style="list-style-type: none"> <li>- Keep away from heat/sparks/open flames/hot surfaces-No Smoking</li> <li>- Avoid breathing dust/fume/gas/mist/vapours/spray</li> <li>- Wear protective gloves/protective clothing/eye protection/face protection</li> <li>- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing</li> <li>- Get medical advice/attention</li> <li>- Store in a well ventilated place. Keep container tightly closed</li> <li>- Dispose of contents/container in accordance with local regulation</li> </ul>	

### SECTION 4 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS #	REACH Pre-registration Number	Concentration % by weight
Tetrahydrofuran (Thf)	109-00-9	203-726-8	05-2116297729-22-0000	10-70
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	05-2116297728-24-0000	0 - 40
Cyclohexanone	108-94-1	203-631-1	05-2116297718-25-0000	10 - 40
Acetone	67-64-1	200-662-2	05-2116297713-35-0000	5 - 30

All the constituents of this adhesive product are listed on the TCSA inventory of chemical substance maintained by US EPA, or are exempt from listing.

### SECTION 5 - ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	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)
<b>Environmental Precautions:</b>	Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.
<b>Method of Cleaning up:</b>	Cleanup with sand or other inert absorbent material. Transfer to a closable steel vessel.
<b>Material not to be used for clean up:</b>	Aluminum or plastic containers

### SECTION 6 - FIRST AID MEASURES

<b>Contact with eyes:</b>	Flush eye immediately with plenty of water for 15 minutes and seek medical advice immediately.
<b>Skin Contact:</b>	Remove contaminated clothing and shoes. Wash Skin thoroughly with soap and water. If irritation develops, seek medical advice.
<b>Inhalation:</b>	Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.
<b>Ingestion:</b>	Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.

### SECTION 7 - FIREFIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Dry Chemical powder, carbon dioxide gas, foam, Halon, water fog.
<b>Unsuitable Extinguishing Media:</b>	Water spray or stream.
<b>Exposure Hazards:</b>	Inhalation or dermal contact
<b>Combustion Products:</b>	Oxides of carbon, Hydrogen chloride and smoke
<b>Protection for Firefighters:</b>	Self-contained breathing apparatus or full-face positive pressure airline masks.

### SECTION 8 - HANDLING AND STORAGE

<b>Handling:</b>	Avoid Breathing of vapor, avoid contact with eyes, skin and clothing. Keep away from ignition sources, use only electrically grounded handling equipment and ensure ventilation/fume exhaust hoods. Do not eat, drink or smoke while handling
<b>Storage:</b>	Store in ventilated room or shade below 33°C (90°F) and away from direct sunlight. Keep away from ignition sources and incompatible materials: caustics, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates. Follow all precautionary information on container label, product bulletins and solvent cementing literature.



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## SECTION 9 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

**Engineer 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 procedure 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 change. 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 10 - STABILITY AND REACTIVITY

**Stability:** Stable  
**Hazardous decomposition products:** None in normal use. When forced to burn, this product gives off oxides of C, hydrogen chloride & 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 - TOXICOLOGY INFORMATION

**Likely Routes of Exposure:** Inhalation, Eye and Skin Contact

**Acute symptoms and effects:**

**Inhalation:** Severe overexposure may result in nausea, 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):** Not known to humans.

<b>Toxicity:</b>	LD50	LC50
<b>Tetra hydro furan (THF)</b>	Oral: 2842 mg/kg (rat)	Inhalation 3 hrs. 21,000 mg/m <sup>3</sup> (rat)
<b>Methyl Ethyl Ketone (MEK)</b>	Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)	Inhalation 8 hrs. 23,500 mg/m <sup>3</sup> (rat)
<b>Cyclohexanone</b>	Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit)	Inhalation 4 hrs. 8,000 mg/m <sup>3</sup> (rat)
<b>Acetone</b>	Oral: 5800 mg/kg (rat)	Inhalation 50,100 mg/m <sup>3</sup> (rat)

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecotoxicity:** None Known  
**Mobility:** On normal use, Emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of <490 g/l  
**Degradability:** Biodegradable  
**Bioaccumulation:** Minimal to none

## SECTION 13 - WASTE DISPOSAL CONSIDERATION

Follow local and national regulations, consult disposal expert.

## 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

## SECTION 15 - REGULATORY INFORMATION

**Precautionary Label Information:** Highly Flammable, Irritant  
**Symbols:** F, Xi  
**Risk Phrases:** Highly flammable  
May form explosive peroxide  
Harmful by inhalation  
**Safety phrases:** Keep out of the reach of children  
Keep container in a well ventilated place  
Keep away from source of ignition - No Smoking  
Avoid contact with eyes.  
Irritating to eyes and respiratory system.  
repeated exposure may cause skin dryness or cracking  
Vapors may cause drowsiness and dizziness.  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
Do not empty into drains.  
Take precautionary measures against static discharges.  
If swallowed, seek medical advice immediately and show this container or label

## SECTION 16 - OTHER INFORMATION

**NFPA and HMIS :**  
**NFPA Hazard Signal :** Health: 2 Flammability: 3 Reactivity: 1 Special : None  
**HMIS Hazard Signal :** Health: 2\* Flammability: 3 Reactivity: 1 PPE : G  
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