	FLEXIBLE PVC CEMENT		
SECTION 1	IDENTITY OF MATERIAL		
Trade Name:	OATEY FLEXIBLE PVC CEMENT		
Product Numbers:	30875, 30877, 30878, 30879, 31475		
Formula:	PVC Resin in Solvent Solution		
Synonyms:	PVC Plastic Pipe Cement		
Firm Name &	OATEY CO. 4700 West 160th Street P.O. Box 35906 Cleveland,		
Mailing Address:	Ohio 44135, U.S.A. http://www.oatey.com		
Oatey Phone Number:	(216) 267-7100		
Emergency Phone	For Emergency First Aid call 1-303-623-5716 COLLECT. For		
Numbers:	chemical transportation emergencies ONLY, call Chemtrec at		
	1-800-424-9300		
SECTION 2	COMPOSITION		
INGREDIENTS:	%: CAS NUMBER: ACGIH TLV TWA: OSHA PEL TWA: OTHER:		
Acetone	$\frac{30}{30} - 40\% 67-64-1$ $\frac{ACG111 11V 1WA1}{500 \text{ ppm}}$ $\frac{OS1A7 \text{ PED 1WA1}}{1000 \text{ ppm}}$		
Acceone	750 ppm STEL		
Cyclohexanone	5 - 15% 108-94-1 20 ppm(skin) 25 ppm		
Tetrahydrofuran	30 - 40% 109-99-9 200 ppm 200 ppm 25 ppm (Mfg)		
recranyaroraran	750 ppm STEL		
Methyl Ethyl Ketone	0 - 2% 78-93-3 200 ppm 200 ppm		
PVC Resin	12 - 16% 9002-86-2 10 mg/m3 15 mg/m3		
(Non-hazardous)			

# SECTION 3 EMERGENCY OVERVIEW

(Non-hazardous)

Amorphous Fumed Silica 1 - 3% 112945-52-5 10 mg/m3

Clear liquid with an ether-like odor. Extremely flammable liquid and vapor. Vapors may cause flash fire. May cause eye and skin irritation. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects. Swallowing may cause irritation, nausea, vomiting, diarrhea and kidney or liver disorders. Aspiration hazard. May be fatal if swallowed. Symptoms may be delayed. NFPA Hazard Signal: Health: 2 Stability: 1 Flammability: 3 Special: None HMIS Hazard Signal: Health: 3 Stability: 1 Flammability: 3 Special: None OSHA Hazard Classification: Flammable, irritant, organ effects Canadian WHIMS Classification: Class B, Division 2; Class D, Division 2, Subdivision B

None

Established

SECTION 4 Skin:	<b>EMERGENCY AND FIRST AID PROCEDURES - CALL 1-303-623-5716 COLLECT</b> Remove contaminated clothing immediately. Wash all exposed areas with soap and water. Get medical attention if irritation develops. Remove dried cement with Oatey Plumber's Hand Cleaner or baby oil.
Eyes:	If material gets into eyes or if fumes cause irritation, immediately flush eyes with water for 15 minutes. If irritation persists, seek medical attention.
Inhalation:	If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, administer oxygen. Administer artificial respiration if breathing has stopped. Seek immediate medical attention.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth with water. Never give anything by mouth to a person who is unconscious or drowsy. Get immediate medical attention by calling a Poison Control Center, or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical emergency treatment center or hospital.

FLEXIBLE PVC CEMENT

SECTION 5 FIRE FIGHTING MEASURES				
Flashpoint / Method:	0 - 5 Degrees F. / PMCC			
Flammability:	LEL = 1.8 % Volume, UEL = 11.8 % Volume			
Extinguishing	Use dry chemical, CO2, or foam to extinguish fire. Cool fire			
Media:	exposed container with water. Water may be ineffective as an			
	extinguishing agent.			
Special Fire	Firefighters should wear positive pressure self-contained			
Fighting	breathing apparatus and full protective clothing for fires in			
Procedure:	areas where chemicals are used or stored			
Unusual Fire and	Extremely flammable liquid. Keep away from heat and all			
Explosion	sources of ignition including sparks, flames, lighted			
Hazards:	cigarettes and pilot lights. Containers may rupture or			
	explode in the heat of a fire. Vapors are heavier than air			
	and may travel to a remote ignition source and flash back.			
	This product contains tetrahydrofuran that may form explosive			
	organic peroxide when exposed to air or light or with age.			
Hazardous	Combustion will produce toxic and irritating vapors including			
Decomposition	carbon monoxide, carbon dioxide and hydrogen chloride.			
Products:				

# SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill or Remove all sources of ignition and ventilate area. Stop leak if it Leak can be done without risk. Personnel cleaning up the spill should Procedures: wear appropriate personal protective equipment, including respirators if vapor concentrations are high. Soak up spill with an inert absorbent such as sand, earth or other non-combusting material. Put absorbent material in covered, labeled metal containers. Prevent liquid from entering watercourses, sewers and natural waterways. Report releases to authorities as required. See Section 12 for disposal information.

### SECTION 7 HANDLING AND STORAGE

- Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use with adequate ventilation (equivalent to outdoors). Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use.
- Storage: Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use.
- Other: "Empty" containers retain product residue and can be hazardous. Follow all MSDS precautions in handling empty containers. Do not cut or weld on or near empty or full containers.

# SECTION 8 ECOLOGICAL INFORMATION This product is not expected to be toxic to aquatic organisms. Cyclohexanone: 96 hour LC50 values for fish is over 100 mg/l. Tetrahydrofuran: 96 hour LC50 fathead minnow: 2160 mg/L. Methyl Ethyl Ketone: 96 hour LC50 for fish is greater than 100 mg/L. Acetone: 96 hour LC50 for fish is greater than 100 mg/L. VOC This product emits VOC's (volatile organic compounds) in its use. Information: Make sure that use of this product complies with local VOC emission regulations, where they exist. VOC Level: 600 g/l per SCAQMD Test Method 316A.

FLEXIBLE PVC CEMENT				
SECTION 9	EXPOSURE CONTROLS/PERSONAL PROTECTION			
Ventilation:	pen doors & windows. Provide ventilation capable of main missions at the point of use below recommended exposure sed in enclosed area, use exhaust fans. Exhaust fans sho explosion-proof or set up in a way that flammable concent polvent vapors are not exposed to electrical fixtures or	limits. If ould be trations of		
Respiratory Protection:	surfaces. For operations where the exposure limit may be exceeded, a NIOSH approved organic vapor respirator or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.			
Skin Protection: Eye Protection:	Rubber gloves are suitable for normal use of the product. For long exposures chemical resistant gloves may be required such as 4H(tm) or Silver Shield(tm) to avoid prolonged skin contact. Safety glasses with side shields or safety goggles.			
Other:	ye wash and safety shower should be available.			
SECTION 10 Boiling Point Melting Point Vapor Pressur Vapor Density Volatile Comp Solubility In pH: Specific Grav Evaporation F Appearance: Odor: Will Dissolve Material Is:	ater: Negligible N/A Y: 0.92 +/- 0.02 e: (BUAC = 1) = 5.5 - 8.0 Clear Liquid Ether-Like			
SECTION 11 Stability: Conditions To Hazardous Decomposition Products: Incompatibili Materials To Hazardous Polymerizatio	Combustion will produce toxic and irritating vapor including carbon monoxide, carbon dioxide and hydrichloride. / Oxidizing agents, alkalies, amines, ammonia, acid	ors drogen ds, chlorine lcium and		
SECTION 12 DISPOSAL INFORMATION Waste Disposal: Dispose in accordance with current local, state and federal regulations.				

FLEXIBLE PVC CEMENT				
SECTION 13	TOXICOLOGICAL INFORMATION			
Inhalation:	Vapors or mists may cause mucous membrane and respiratory			
	irritation, coughing, headache, dizziness, dullness, nausea,			
	shortness of breath and vomiting. High concentrations may cause			
	central nervous system depression, narcosis and unconsciousness.			
	May cause kidney, liver and lung damage.			
Skin:	May cause irritation with redness, itching and pain. Methyl			
	ethyl ketone and cyclohexanone may be absorbed through the skin			
	causing effects similar to those listed under inhalation.			
Eye:	Vapors may cause irritation. Direct contact may cause irritation			
	with redness, stinging and tearing of the eyes. May cause eye			
Tracation	damage.			
Ingestion:	Swallowing may cause abdominal pain, nausea, vomiting and diarrhea. Aspiration during swallowing or vomiting can cause			
	chemical pneumonia and lung damage. May cause kidney and liver			
	damage.			
Chronic	Prolonged or repeated overexposure cause dermatitis and damage			
Toxicity:	to the kidney, liver, lungs and central nervous system.			
Toxicity Data:	Acetone: Oral rat LD50: 5,800 mg/kg			
	Inhalation rat LC50: 50,100 mg/m3/8 hours			
	Cyclohexanone: Oral rat LD50: 1,620 mg/kg			
	Inhalation rat LC50: 8,000 ppm/4 hours			
	Skin rabbit LD50: 1 mL/kg			
	Tetrahydrofuran: Oral rat LD50: 1,650 mg/kg			
	Inhalation rat LC50: 21,000 ppm/3 hours			
	Methyl Ethyl Ketone: Oral rat LD50: 2,737 mg/kg			
	Inhalation rat LC50: 23,500 mg/m3/8 hours			
Sensitization:	Skin rabbit LD50: 6,480 mg/kg			
Carcinogenicity:	None of the components are known to cause sensitization. None of the components are listed as a carcinogen or suspect			
carcinogenicity.	carcinogen by NTP, IARC or OSHA. The National Toxicology Program			
	has reported that exposure of mice and rats to Tetrahydrofuran			
	(THF) vapor levels up to 1800 ppm 6 hr/day, 5 days/week for their			
	lifetime caused an increased incidence of kidney tumors in male			
	rats and liver tumors in female mice. The significance of these			
	findings for human health are unclear at this time, and may be			
	related to "species specific" effects. Elevated incidences of			
	tumors in humans have not been reported for THF. ACGIH has			
	classified cyclohexanone (CYH) as "A3," Confirmed Animal			
	Carcinogen with Unknown Relevance to Humans.			
Mutagenicity:	incidences of tumors in humans have not been reported for THF. Acetone has been positive in a mammal cell cytogenic analysis			
Mutagemetry.	but negative in many other assays. At most, acetone is weakly			
	genotoxic. Cyclohexanone has been positive in bacterial and			
	mammalian assays. Tetrahydrofuran was positive in a bacterial			
	assay. Methyl ethyl ketone is not considered genotoxic based on			
	laboratory studies.			
Reproductive	Methyl ethyl ketone and cyclohexanone have been shown to cause			
Toxicity:	embryofetal toxicity and birth defects in laboratory animals.			
	Acetone and tetrahydrofuran have been found to cause adverse			
	developmental effects only when exposure levels cause other			
	toxic effects to the mother.			
Medical	Persons with pre-existing skin, lung, kidney or liver disorders			
Conditions Aggravated By	may be at increased risk from exposure to this product.			
Exposure:				
TVDOUTC.				

FLEXIBLE PVC CEMENT						
SECTION 14 TRANSPORTATION INFORMATION						
	han 1 Liter (0.3 gal) Great					
Proper Shipping Name:	Consumer Commodity	Adhesives				
Hazard Class/Packing Group:		3, PGII				
UN/NA Number:	None	UN1133				
Hazard Labels:	None	Flammable Liquid				
IMDG						
Proper Shipping Name:	Adhesives	Adhesives				
Hazard Class/Packing Group:		3, II				
UN Number: Label:	UN1133	UN1133				
Label·	None (Limited Quantities	Class 3 (Flammable				
	are excepted from labeling)	Liquid)				
DODA Harandawa Masta Number:						
RCRA Hazardous Waste Number: EPA Hazardous Waste ID Number						
		Methyl Ethyl Ketone content)				
2000 North American Emergency						
2000 North American Emergency	Response Guidebook Mumber.	127 OF 128				
SECTION 15	REGULATIONS					
Hazard Category for Section	Acute Health, Chronic Health, Flammable					
311/312:						
Section 302 Extremely	This product does not contain chemicals regulated					
Hazardous Substances (TPQ):	under SARA Section 302.					
Section 313 Toxic Chemicals:	This product contains the following chemicals					
	subject to SARA Title III Section 313 Reporting					
	requirements:					
	Chemical CAS #	$\frac{8}{0} - 28$				
	Methyl Ethyl Ketone 78-93-	-3 0-2%				
CERCLA 103 Reportable	Spills of this product ove	er the RO (reportable				
Quantity:	quantity) must be reported					
2	Center. The RQ for the pro					
	Center. The KO for the bro	Juuct, Dased on the RU LUI				
		num) of 1,000 lbs, is 2,500				
	Tetrahydrofuran (40% maxim lbs. Many states have more	num) of 1,000 lbs, is 2,500 e stringent release				
	Tetrahydrofuran (40% maxim lbs. Many states have more	num) of 1,000 lbs, is 2,500 e stringent release eport spills required under				
California Proposition 65:	Tetrahydrofuran (40% maxim lbs. Many states have more reporting requirements. Re	num) of 1,000 lbs, is 2,500 e stringent release eport spills required under regulations.				
California Proposition 65:	Tetrahydrofuran (40% maxim lbs. Many states have more reporting requirements. Re federal, state and local r	num) of 1,000 lbs, is 2,500 e stringent release eport spills required under regulations. ain any chemicals subject				
California Proposition 65: TSCA Inventory:	Tetrahydrofuran (40% maxim lbs. Many states have more reporting requirements. Re federal, state and local r This product does not cont	num) of 1,000 lbs, is 2,500 e stringent release eport spills required under regulations. ain any chemicals subject 65 regulation.				
-	Tetrahydrofuran (40% maxim lbs. Many states have more reporting requirements. Re federal, state and local r This product does not cont To California Proposition	num) of 1,000 lbs, is 2,500 e stringent release eport spills required under regulations. ain any chemicals subject 65 regulation.				

# SECTION 16 DISCLAIMER

The information herein has been compiled from sources believed to be reliable, upto-date, and is accurate to the best of our knowledge. However, Oatey cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.