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MATERIAL SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION		
Trade Name:	OATEY ALL WEATHER CLEAR CEMENT		
Product Use:	Cement for PVC Plastic Pipe		
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 or (800) 321-9532		
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. Outside the U.S. 1-703-527-3887.		
Prepared By:	Corporate Director - Safety and Environmental Compliance		
Preparation Date:	May 20, 2005		

SECTION 2	COMPOSITION	/INFORMATION	ON INGREDIENTS	5	
INGREDIENTS:	%wt/wt∶	CAS NUMBER:	ACGIH TLV TWA:	OSHA PEL TWA	: OTHER:
Tetrahydrofuran	40 - 55%	109-99-9	50 ppm(skin) 100 ppm STEL		25 ppm (Mfg)
PVC Resin (Non-hazardous)	12 - 20%	9002-86-2	10 mg/m3	15 mg/m3	None
Acetone	10 - 25%	67-64-1	500 ppm 750 ppm STEL	1000 ppm	None
Cyclohexanone	10 - 20%	108-94-1	20 ppm(skin) 50 ppm STEL	50 ppm	None
Amorphous Fumed Sil (Non-hazardous)			5 10 mg/m3	None Established	None
OSHA Hazard Classification:		Flammak	ole, irritant,	organ effects	

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview:

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.

SECTION 4 FIRST AID MEASURES CALL 1-303-623-5716 COLLECT Skin: 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 plenty of water until chemical is removed. If irritation persists, get medical attention immediately. 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. DO NOT INDUCE VOMITING. Rinse mouth with water. Never give anything Ingestion: 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.

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SECTION 5	FIRE FIGHTING MEASURES
Flashpoint / Method:	0 - 5 Degrees F. (-1815 Degrees C / 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 13 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 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Ventilation: Open doors & windows. Provide ventilation capable of maintaining emissions at the point of use below recommended exposure limits. If used in enclosed area, use exhaust fans. Exhaust fans should be explosion-proof or set up in a way that flammable concentrations of solvent vapors are not exposed to electrical fixtures or hot surfaces.
- Respiratory For operations where the exposure limit may be exceeded, a NIOSH Protection: 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.
- SkinRubber gloves are suitable for normal use of the product. For longProtection:exposures chemical resistant gloves may be required such as

MSDS No: CEM050E5 Issue Date: 20 May 2005 Page: 3 of 5 4H(tm) or Silver Shield(tm) to avoid prolonged skin contact. SECTION 8 (Continued) Eye Safety glasses with sideshields or safety goggles. Protection: Other: Eye wash and safety shower should be available. SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES 151 Degrees F / 66 Degrees C Boiling Point: Melting Point: Not Applicable Vapor Pressure: 145 mmHg @ 20 Degrees C (Air = 1) 2.5Vapor Density: Volatile Components: 81-85% Solubility In Water: Negligible Not Applicable pH: Specific Gravity: 0.94 +/- 0.01 @ 20 Degrees C (BUAC = 1) = 5.5 - 8.0Evaporation Rate: Appearance: Clear Liquid Odor: Ether-Like Will Dissolve In: Tetrahydrofuran Material Is: Liquid STABILITY AND REACTIVITY SECTION 10 Stability: Stable Conditions To Avoid: Avoid heat, sparks, flames and other sources of ignition. Combustion will produce toxic and irritating vapors Hazardous including carbon monoxide, carbon dioxide and hydrogen Decomposition Products: chloride. Incompatibility/ Oxidizing agents, alkalis, amines, ammonia, acids, chlorine Materials To Avoid: compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. May attack plastic, resins and rubber. Hazardous Will not occur. Polymerization: SECTION 11 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. May cause irritation with redness, itching and pain. Cyclohexanone Skin: may be absorbed through the skin causing effects similar to those listed under inhalation. Vapors may cause irritation. Direct contact may cause irritation Eye: with redness, stinging and tearing of the eyes. May cause eye damage. Swallowing may cause abdominal pain, nausea, vomiting and Ingestion: 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. Oral rat LD50: 5,800 mg/kg Toxicity Data: Acetone: 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 Oral rat LD50: 1,650 mg/kg Tetrahydrofuran: Inhalation rat LC50: 21,000 ppm/3 hours

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SECTION 11 (Continued)

Sensitization: None of the components are known to cause sensitization. Carcinogenicity: None of the components are listed as a carcinogen or suspect 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 is 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) and tetrahydrofuran as "A3," Confirmed Animal Carcinogens with Unknown Relevance to Humans. Mutagenicity: Cyclohexanone has been positive in bacterial and mammalian assays. Acetone and tetrahydrofuran are generally thought not to be mutagenic. Cyclohexanone has been shown to cause embryofetal toxicity and Reproductive birth defects in laboratory animals. Toxicity: 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 may be at increased risk from exposure to this product. Aggravated By Exposure: SECTION 12 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. 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.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with current local, state and federal regulations.

RCRA Hazardous Waste Number: U002, U057, U213 EPA Hazardous Waste ID Number: D001, F003 EPA Hazard Waste Class: Ignitable Waste.

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SECTION 14 TRANSPORT	INFORMATION					
DOT Less than 1 Liter (0.3 gal) Greater than 1 Liter (0.3 gal)						
Proper Shipping Name:	Consumer Commodity	Adhesives				
Hazard Class/Packing Group:	ORM-D	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:	UN1133	UN1133				
Label:	None (Limited Quantities	Class 3 (Flammable				
	are excepted	Liquid)				
	from labeling)					
2004 North American Emergency	Response Guidebook Number:	127 or 128				
	INFORMATION					
Hazard Category for Section 311/312:	Acute Health, Chronic Heal	th, Flammable				
Section 302 Extremely	This product does not contain chemicals regulated					
Hazardous Substances (TPQ):	under SARA Section 302.					
Section 313 Toxic Chemicals:	This product contains no c	hemicals subject to SARA				
	Title III Section 313 Repo					
CERCLA 103 Reportable	Spills of this product ove					
Quantity:	quantity) must be reported to the National Response					
	Center. The RQ for the pro-					
	Tetrahydrofuran (55% maxim					
	lbs. Many states have more					
	reporting requirements. Re					
	federal, state and local r					
Galifannia Duanasitian (C.						
California Proposition 65:		This product contains trace amounts of chemicals				
	known to the State of to cause cancer. Under normal					
		o these chemicals at levels				
	above the State of Califor					
	Level" (NSRL) are unlikely					
	encourages the use of prop					
	equipment (PPE) and ventil	ation guidelines noted in				
	Section 8 to minimize expo	sure to these chemicals.				
TSCA Inventory:	All of the components of t	his product are listed on				
	the TSCA inventory.					
Canadian WHIMS Classification		Class D, Division 2,				
	Subdivision B. This produ					
	accordance with the hazard criteria of the Controlled					
	Products Regulations (CPR)	and the MSDS contains all				
	the information required b					
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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 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.