MSI	DS No:	CEM240E	55
Issue	Date:	20 May	2005
	Page:	1 of 5	

MATERIAL SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
Trade Name:	OATEY LO-V.O.C. PVC MEDIUM GRAY 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	35 - 50%	109-99-9	50 ppm(skin)	200 ppm 2	25 ppm (Mfg)
			100 ppm STEL		
Methyl Ethyl Ketone	10 - 20%	78-93-3	200 ppm	200 ppm	None
			300 ppm STEL		
PVC Resin	10 - 18%	9002-86-2	10 mg/m3	15 mg/m3	None
(Non-hazardous)					
Acetone	10 - 20%	67-64-1	500 ppm	1000 ppm	None
			750 ppm		
Cyclohexanone	7 - 15%	108-94-1	20 ppm(skin)	50 ppm	None
			50 ppm STEL		
Amorphous Fumed Sil	ica 1 - 5%	112945-52-	5 10 mg/m3	None	None
(Non-hazardous)				Established	

OSHA Hazard Classification: Flammable, irritant, organ effects

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview:

Gray 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
Skin:	CALL 1-303-623-5716 COLLECT Remove contaminated clothing immediately. Wash all exposed areas with soap and water. Get medical attention if irritation develops. Remove
Eyes:	dried cement with Oatey Plumber's Hand Cleaner or baby oil. If material gets into eyes or if fumes cause irritation, immediately flush eyes with plenty of water until chemical is removed. If
Inhalation:	irritation persists, get medical attention immediately. 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.

MSDS No: CEM240E5 Issue Date: 20 May 2005 Page: 2 of 5

SECTION 5	FIRE FIGHTING MEASURES
Flashpoint / Method:	0 to 5 Degrees F. (-18 to -15 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.
- Skin Rubber gloves are suitable for normal use of the product. For long Protection: exposures chemical resistant gloves may be required such as

MSDS No: CEM240E5 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 side shields 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: 70 - 80% Solubility In Water: Negligible Not applicable pH: Specific Gravity: 0.94 +/- 0.02 @ 20 Degrees C (BUAC = 1) = 5.5 - 8.0Evaporation Rate: Appearance: Gray 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. Methyl Skin: ethyl ketone and cyclohexanone 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

					CENZIOR	
			Issue	Date:	20 May	2005
				Page:	4 of 5	
SECTION 11 (Conti	.nued)					
	Methyl Ethyl Ketone:	Oral rat LD50: 2,737	mg/k	а		
		Inhalation rat LC50:	23,5	00 mg/m	3/8 hour	ſS
		Skin rabbit LD50: 6,				
Sensitization:	None of the components	are known to cause	sensi	tizatio	n.	
Carcinogenicity:	None of the components	are listed as a car	cinoq	en or s	uspect	
	carcinogen by NTP, IAR	C or OSHA. The Natio	nal T	oxicolo	qy Proqr	ram
	has reported that expo					
	(THF) vapor levels up					
	lifetime caused an inc					
	rats and liver tumors			-		
	findings for human hea		-			
	related to "species sp					
	tumors in humans have					
	classified cyclohexand	Ŧ				73 "
	Confirmed Animal Carci	-				
Mutagenicity:	Cyclohexanone has been	5				,
Macagemercy	assays. Acetone, meth	-				
	generally thought not		LELIA.	iyuroru		
Reproductive	Methyl ethyl ketone an	-	hoon	ahown	to gouge	~
Toxicity:	embryofetal toxicity a					-
IOXICILY:	Acetone and tetrahydro					
	developmental effects		evers	cause	other	
NG 1' 7	toxic effects to the m			- ·		
Medical	Persons with pre-exist					:s
Conditions	may be at increased ri	sk from exposure to	this j	product	•	
Aggravated By						
Exposure:						

MSDS No: CEM240E5

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.
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.VOCThis 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:460 g/l per SCAQMD Test Method 316A.

SECTION 13DISPOSAL CONSIDERATIONSWaste Disposal: Dispose in accordance with current local, state and federal
regulations.RCRA Hazardous Waste Number:U002, U057, U159, U213EPA Hazardous Waste ID Number:D001, D035, F003, F005

EPA Hazard Waste Class: Ignitable Waste. Toxic Waste (Methyl Ethyl Ketone content)

MSDS No: CEM240E5 Issue Date: 20 May 2005 Page: 5 of 5

SECTION 14 TRANSPORT	INFORMATION	rage: J OL J
DOT Less t	han 1 Liter (0.3 gal) Great	er 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	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
SECTION 15 REGULATORY	INFORMATION	
Hazard Category for Section	Acute Health, Chronic Heal	th, Flammable
311/312:		
Section 302 Extremely	This product does not cont	ain chemicals regulated
Hazardous Substances (TPQ):	under SARA Section 302.	
Section 313 Toxic Chemicals:	This product contains the	
	subject to SARA Title III	Section 313 Reporting
	requirements:	
	ChemicalCAS #Methyl Ethyl Ketone78-93-	% by wt.
	Methyl Ethyl Ketone 78-93-	3 10-20%
CERCLA 103 Reportable	Spills of this product ove	r the RO (reportable
Quantity:	quantity) must be reported	
	Center. The RQ for the pro	
	Tetrahydrofuran (50% maxim	
	lbs. Many states have more	
	reporting requirements. Re	
	federal, state and local r	egulations.
California Proposition 65:	This product contains trac	e amounts of chemicals
	known to the State of to c	ause cancer. Under normal
	Use conditions, exposure t	o these chemicals at levels
	above the State of Califor	nia "No Significant Risk
	Level" (NSRL) are unlikely	
	encourages the use of prop	
	equipment (PPE) and ventil	
	Section 8 to minimize expo	
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; Class D, Di	
	This product has been clas	
	the hazard criteria of the	
	Regulations (CPR) and the	
	information required by th	e Crr.

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.