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MATERIAL SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
Trade Name:	OATEY PVC HEAVY DUTY CLEAR CEMENT
Product No.:	30850, 30863, 30876, 30882, 31008, 31011, 31950, 31951, 31952,
	31953
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 1-877-740-5015. For
Numbers:	chemical transportation emergencies ONLY, call Chemtrec at
	1-800-424-9300. Outside the U.S. 1-703-527-3887.
Prepared By:	Technical Department
Preparation Date:	November 11, 2008

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS					
INGREDIENTS:	%wt∕wt :	CAS NUMBER:	ACGIH TLV TWA:	OSHA PEL TWA	: OTHER:
Tetrahydrofuran	40 - 60%	109-99-9	50 ppm(skin) 100 ppm STEL	200 ppm	25 ppm (Mfg)
Methyl Ethyl Ketone	0 - 28%	78-93-3	200 ppm 300 ppm	200 ppm	None
Acetone	0 - 20%	67-64-1	500 ppm 750 ppm STEL	1000 ppm	None
PVC Resin (Non-hazardous)	12 - 20%	9002-86-2	10 mg/m3	15 mg/m3	None
Cyclohexanone	10 - 20%	108-94-1	20 ppm(skin) 50 ppm STEL	50 ppm	None
Amorphous Fumed Sil (Non-hazardous)	ica 1 – 4%	112945-52-	-5 10 mg/m3	None Established	None

OSHA Hazard Classification:

Flammable, 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 1-877-740-5015 or 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.

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.

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SECTION 5 FIRE FIGHTING MEASURES				
Flashpoint / Method:	14 - 23 Degrees F. (-10 to -5 Degrees C) / CCCFP			
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 Products:	carbon monoxide, carbon dioxide and hydrogen chloride.			

MEASURES
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Remove all sources of ignition and ventilate area. Stop leak if it Spill or 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

SECTION 6

Leak

- Avoid contact with eyes, skin and clothing. Avoid breathing vapors Handling: 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.
- Store in a cool, dry, well-ventilated area away from incompatible Storage: 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 4H(tm)

MSDS No: CEM040E8 Issue Date: 11 Nov 2008 Page: 3 of 5 or Silver Shield(tm) to avoid prolonged skin contact. Eye Safety glasses with side shields or safety goggles. Protection: Other: Eye wash and safety shower should be available.

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Melting Point:	151 Degrees F / 66 Degrees C Not applicable
Vapor Pressure:	145 mmHg @ 20 Degrees C
Vapor Density:	(Air = 1) 2.5
Volatile Components:	80-84%
Solubility In Water:	Negligible
pH:	Not applicable
Specific Gravity:	0.93 +/- 0.02 @ 20 Degrees C
Evaporation Rate:	(BUAC = 1) = 5.5 - 8.0
Appearance:	Clear Liquid
Odor:	Ether-Like
Will Dissolve In:	Tetrahydrofuran
Material Is:	Liquid

SECTION 9

SECTION 10 S	TABILITY AND REACTIVITY
Stability:	Stable.
Conditions To Avoid:	Avoid heat, sparks, flames and other sources of ignition.
Hazardous	Combustion will produce toxic and irritating vapors
Decomposition	including carbon monoxide, carbon dioxide and hydrogen
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.
Hagardoug Dolymorigat	view. Will not easyn

Hazardous Polymerization: Will not occur.

SECTION 11 Inhalation:	irritation, coughing, shortness of breath a central nervous syste	ause mucous membrane and respiratory headache, dizziness, dullness, nausea, nd vomiting. High concentrations may cause m depression, narcosis and unconsciousness.		
Skin:	May cause kidney, liver and lung damage. 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.			
Еуе:	Vapors may cause irritation. Direct contact may cause irritation with redness, stinging and tearing of the eyes. May cause eye 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	2	overexposure cause dermatitis and damage		
Toxicity:	5 1	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 Skin rabbit LD50: 6,480 mg/kg		

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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, methyl ethyl ketone and tetrahydrofuran are
	generally thought not to be mutagenic.
Reproductive	Methyl ethyl ketone and cyclohexanone have been shown to cause
Toxicity:	embryofetal toxicity and birth defects in laboratory animals.
	Acetone and tetrahydrofuran has 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	mal at at finitized item from outpotents of outpotents.
Exposure:	
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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.				
	Methyl Ethyl Ketone: 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:	Maximum 650 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, U159, U213 EPA Hazardous Waste ID Number: D001, D035, F003, F005 EPA Hazard Waste Class: Ignitable Waste. Toxic Waste (Methyl Ethyl Ketone content)

SECTION 14 TRANSPORT	INFORMATION	
DOT Less th	nan 1 Liter (0.3 gal) Greater t	han 1 Liter (0.3 gal)
UN/NA Number:	None	UN1133
Proper Shipping Name:	Consumer Commodity	Adhesives
Hazard Class:	ORM-D	3
Packing Group:	None	PGII
Hazard Labels:	None	Flammable Liquid
IMDG		
UN Number:	UN1133	UN1133
Proper Shipping Name:	Adhesives	Adhesives
Hazard Class:	3	3
Packing Group:	II	II
Label:	None (Limited Quantities	Class 3 (Flammable
	are excepted	Liquid)
	from labeling)	
Flashpoint (deg C)	-10 to -5 Degrees C	-10 to -5 Degrees C
2008 North American Emergency	Response Guidebook Number:	127

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SECTION 15 REGULATOR	Y INFORMATION			
Hazard Category for Section 311/312:	Acute Health, Chronic Health, Flammable			
Section 302 Extremely	This product does not contain chemicals regulated			
Hazardous Substances (TPQ):	under SARA Section 302.			
Section 313 Toxic Chemicals:	This product does not contain chemicals subject to SARA Title III Section 313 Reporting requirements.			
CERCLA 103 Reportable	Spills of this product over the RQ (reportable			
Quantity:	quantity) must be reported to the National Response			
	Center. The RQ for the product, based on the RQ for			
	Tetrahydrofuran (60% maximum) of 1,000 lbs, is 1,667			
	lbs. Many states have more stringent release reporting requirements. Report spills required under			
	federal, state and local regulations.			
California Proposition 65:	This product contains trace amounts of chemicals			
	known to the State of California to cause cancer.			
	Under normal use conditions, exposure to these			
	chemicals at levels above the State of California "No			
	Significant Risk Level" (NSRL) are unlikely. Oatey			
	Strongly encourages the use of proper personal			
	protective equipment (PPE) and ventilation guidelines			
	noted in Section 8 to minimize exposure to these			
	chemicals.			
TSCA Inventory:	All of the components of this product are listed on			
	the TSCA inventory.			
Canadian WHIMS Classification				
	Subdivision B; Class D, Division 2, Subdivision A. This product has been classified in accordance with			
	the hazard criteria of the Controlled Products			
	Regulations (CPR) and the MSDS contains all the			
	information required by the CPR.			

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.