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MATERIAL SAFETY DATA SHEET

SECTION 1 Trade Name: Product No.: Product Use: Formula:	PRODUCT AND COMPANY IDENTIFICATION OATEY ALL PURPOSE LO-VOC CEMENT 31895, 31896, 31897, 31898, 31899 Cement for PVC, ABS, AND CPVC Pipe PVC & CPVC Resin in Solvent Solution
Synonyms:	None
Mailing Address:	OATEY CO. 4700 West 160th Street P.O. Box 35906 Cleveland, Ohio 44135, U.S.A. http://www.oatey.com (216) 267-7100 or (800) 321-9532
Emergency Phone Numbers:	For Emergency First Aid call 1-877-740-5015. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the U.S. 1-703-527-3887.
Prepared By: Preparation Date:	Technical Department November 11, 2008

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:	<u>%wt/wt:</u>		CGIH TLV TWA:		OTHER:
Acetone	10 - 20%	67-64-1	500 ppm	1000 ppm	
		100 00 0	750 ppm STEL		
Tetrahydrofuran	30 - 45%	109-99-9	50 ppm(skin)	200 ppm .	25 ppm (Mfg)
	1.0		100 ppm STEL		
Methyl Ethyl Ketone	10 - 20%	78-93-3	200 ppm	200 ppm	None
			300 ppm STEL		
Cyclohexanone	10 - 20%	108-94-1	20 ppm(skin)	50 ppm	None
			50 ppm STEL		
PVC Resin	8 - 15%	9002-86-2	10 mg/m3	15 mg/m3	None
(Non-hazardous)					
CPVC Resin	3 - 7%	68648-82-8	10 mg/m3	None	None
(Non-hazardous)				Established	
Amorphous Fumed Sili	ca 1 – 4%	112945-52-5	10 mg/m3	None	None
(Non-hazardous)			2	Established	

OSHA Hazard Classification:

Flammable, irritant, organ effects

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview:

Milky 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	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 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

Leak

- 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.
- For operations where the exposure limit may be exceeded, a NIOSH Respiratory approved organic vapor respirator or supplied air respirator is Protection: 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.
- Rubber gloves are suitable for normal use of the product. For long Skin exposures chemical resistant gloves may be required such as 4H(tm) Protection: or Silver Shield(tm) to avoid prolonged skin contact.

Safety glasses with side shields or safety goggles. Eye Protection: Eye wash and safety shower should be available. Other:

PHYSICAL AND CHEMICAL PROPERTIES SECTION 9

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

SECTION 10 STABILITY 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.		
Hazardous Polymerization: Will not occur.			

SECTION 11	TOXICOLOGICAL INFORM	ATION	
Inhalation:	Vapors or mists may c	ause mucous membrane and respiratory	
	irritation, coughing,	headache, dizziness, dullness, nausea,	
	shortness of breath a	nd vomiting. High concentrations may cause	
	central nervous system	m depression, narcosis and unconsciousness.	
	May cause kidney, liv	er and lung damage.	
Skin:	May cause irritation with redness, itching and pain. Methyl		
		ohexanone may be absorbed through the skin	
	-	ar to those listed under inhalation.	
Eye:		tation. Direct contact may cause irritation	
	, ,	g and tearing of the eyes. May cause eye	
	damage.		
Ingestion:		abdominal pain, nausea, vomiting and	
	=	during swallowing or vomiting can cause	
	_	d lung damage. May cause kidney and liver	
	damage.		
Chronic		overexposure cause dermatitis and damage	
Toxicity:	_	lungs and central nervous system.	
Toxicity Data:	Acetone:	Oral rat LD50: 5,800 mg/kg	
	Cualcheuropene	Inhalation rat LC50: 50,100 mg/m3/8 hours Oral rat LD50: 1,620 mg/kg	
	Cyclohexanone:	Inhalation rat LC50: 8,000 ppm/4 hours	
		Skin rabbit LD50: 1 mL/kg	
	Tetrahydrofuran:	Oral rat LD50: 1,650 mg/kg	
	iceranyaroraran.	Inhalation rat LC50: 21,000 ppm/3 hours	
	Methyl Ethyl Ketone:	Oral rat LD50: 2,737 mg/kg	
	neenyt henyt needne.	Inhalation rat LC50: 23,500 mg/m3/8 hours	
		Skin rabbit LD50: 6,480 mg/kg	

Issue Date: 11 Nov 2008 Page: 4 of 5 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. Cyclohexanone has been positive in bacterial and mammalian Mutagenicity: 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 embryofetal toxicity and birth defects in laboratory animals. Toxicity: 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 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 510 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	than 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)	14 - 23 Degrees F. (-10 to	-5 Degrees C) / CCCFP
2008 North American Emergency	Response Guidebook Number:	127

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SECTION 15 REGULATORY INFORMATION

Hazard Category for Section Acute Health, Chronic Health, Flammable 311/312: Section 302 Extremely This product does not contain chemicals regulated under SARA Section 302. Hazardous Substances (TPQ): 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 RO (reportable Quantity: quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Tetrahydrofuran (45% maximum) of 1,000 lbs, is 2,222 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations. This product contains trace amounts of chemicals California Proposition 65: 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. All of the components of this product are listed on TSCA Inventory: the TSCA inventory. Class B, Division 2; Class D, Division 2, 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.