

OATEY MEDIUM CLEAR PVC CEMENT

Latest Revision Date...02/29/00

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Section 1 IDENTITY OF MATERIAL

TRADE NAME                    OATEY MEDIUM CLEAR PVC CEMENT

PRODUCT NUMBERS            31017, 31018, 31019, 31020, 31021

FORMULA                      PVC Resin in Solvent Solution

SYNONYMS                    PVC Plastic Pipe Cement

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SECTION 2 HAZARDOUS INGREDIENTS

INGREDIENTS	%	CAS NUMBER	SEC 313
PVC Resin (Non-Hazardous)	10-15%	9002-86-2	No
Tetrahydrofuran (See SECTION-6)	30-40%	109-99-9	No
Methyl Ethyl Ketone	30-48%	78-93-3	Yes
Cyclohexanone	5-10%	108-94-1	No
Acetone	<2%	67-64-1	No
Amorphous Silica	1-4%	112945-52-5	No

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SECTION 3 KNOWN HAZARDS UNDER 29 CFR 1910.1200

HAZARDS	YES	NO	HAZARDS	YES	NO
Combustible Liquid		X	Skin Hazard	X	
Flammable Liquid	x		Eye Hazard	X	
Pyrophoric Material		X	Toxic Agent	X	
Explosive Material		X	Highly Toxic Agent		x

Unstable Material	X	Sensitizer		x
Water Reactive Material	X	Kidney Toxin	X	
Oxidizer	X	Reproductive Toxin	X	
Organic Peroxide	X	Blood Toxin		x
Corrosive Material	X	Nervous System Toxin	X	
Compressed Gas	X	Lung Toxin	X	
Irritant	x	Liver Toxin	X	
Carcinogen NTP/IARC/OSHA (see SECTION 6)	X			

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SECTION 4 REGULATION

CHEMICAL	TLV (TWA)	PEL	STEL	Hazard Action Level
Acetone	500 ppm	1000 ppm	750 ppm	N/A
	1200 mg/cu m	2400 mg/cu m	1800 mg/cu m	
Cyclohexanone	25 ppm	50 ppm	N/A	N/A
	100 mg/cu m (skin)	200 mg/cu m		
Tetrahydrofuran	200 ppm	200 ppm	250 ppm	N/A
	590 mg/cu m	590 mg/cu m	735 mg/cu m	
Methyl Ethyl Ketone	200 ppm	200 ppm	300 ppm	N/A
	590 mg/cu m	590 mg/cu m	885 mg/cu m	
Amorphous Silica	10mg/cu m	20 mppcf	N/A	N/A

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SECTION 5 REGULATED IDENTIFICATION

DOT PROPER SHIPPING NAME CONSUMER COMMODITY ORM-D; For Gallons: Adhesives, 3, UN 1133, PG II

DOT HAZARD CLASS Class 3 Flammable Liquid

SHIPPING ID NUMBER UN 1133 (Gallons Only)

EPA HAZARDOUS WASTE ID NUMBER D-001

EPA HAZARD WASTE CLASS Ignitable Waste/Toxic Waste

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SECTION 6 EFFECTS OF EXPOSURE

ENTRY ROUTE INHALE - YES INGEST - YES SKIN - YES EYE - YES

INHALATION May cause irritation of mucous membranes, nose & throat, headache, dizziness, nausea, numbness of the extremities and narcosis in high concentrations. Has caused CNS depression & liver damage in animals, & high concentrations have caused retardation of fetal development in rats.

TETRAHYDROFURAN WARNING 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. THF is not listed as a carcinogen by NTP, IARC, or OSHA. One THF vendor has recommended a reduction in the "acceptable exposure limit" from 200 ppm to 25 ppm, 8 and 12 hour time weighted average.

TARGET ORGANS. Eye, Skin, Kidney, Lung, Liver, Central Nervous System

SKIN Chronic contact may lead to irritation & dermatitis. Chronic exposure to vapors of high concentration may cause dermatitis. May possibly be absorbed through the skin.

EYE Vapors or direct contact may cause irritation.

INGESTION. May be aspirated into the lungs or cause systemic effects

described under inhalation.

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SECTION 7 EMERGENCY AND FIRST AID PROCEDURES - 303/623-5716 COLLECT

SKIN            If irritation arises, wash thoroughly with soap and water. Seek medical attention if irritation persists.

EYES            If fumes cause irritation, move to fresh air and irrigate eyes with water for 15 minutes. If irritation persists, seek medical attention.

INHALATION    Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Call a poison control center or physician immediately.

INGESTION     Drink water and call a poison control center or physician immediately. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person.

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SECTION 8 PHYSICAL AND CHEMICAL PROPERTIES

NFPA HAZARD        HEALTH 2 STABILITY 1 FLAMMABILITY 3 SPECIAL NONE  
SIGNAL

BOILING POINT     151 Degrees F / 66 C

MELTING POINT    N/A

VAPOR PRESSURE    145 mmHg @ 20 Degrees C

VAPOR DENSITY     2.5  
(AIR = 1)

VOLATILE           88+/-2%  
COMPONENTS

SOLUBILITY IN      Negligible  
WATER

PH                 N/A

SPECIFIC            0.94 +/- 0.01  
GRAVITY

EVAPORATION       (BUAC = 1) = 5.5 - 8.0

RATE

APPEARANCE Clear Liquid

ODOR Ether-Like

WILL DISSOLVE Tetrahydrofuran  
IN

MATERIAL IS Liquid

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SECTION 9 FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY LEL =1.8 % Volume UEL= 11.8 % Volume

FLASHPOINT AND 0 - 5 Degrees F. / PMCC  
METHOD USED

STABILITY Stable CONDITIONS TO AVOID: Heat, sparks and open  
flame. HAZARDOUS DECOMP. PPTS: Carbon monoxide/ carbon  
dioxide/hydrogen chloride/smoke.

HAZARDOUS Will Not Occur. CONDITIONS TO AVOID: None  
POLYMERIZATION

INCOMPATIBILITY/ Acids, oxidizing materials, alkalis, chlorinated  
MAT. TO AVOID inorganics (potassium, calcium and sodium  
hypochlorite), copper or copper alloys.

SPECIAL FIRE FOR SMALL FIRES: Use dry chemical, CO2, water or foam  
FIGHTING PROCEDURE extinguisher.

FOR LARGE FIRES: Evacuate area and call Fire Department  
immediately.

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SECTION 10 SPILL AND DISPOSAL INFORMATION

SPILL OR LEAK Ventilate area, stop leak if it can be done without risk.  
PROCEDURES Take up with sand, earth, or other non-combustible absorbing  
material.

WASTE DISPOSAL Dispose of according to local, state, and Federal  
regulations.

SECTION 11 SAFE USAGE DATA

PROTECTIVE EQUIPMENT TYPES      EYES: Safety glasses with side shields. RESPIRATORY: NIOSH-approved canister respirator in absence of adequate ventilation. GLOVES: Rubber gloves. OTHER: Eye wash and safety shower should be available.

VENTILATION                      LOCAL EXHAUST: Open doors & windows. Exhaust ventilation capable of maintaining emissions at the point of use below PEL. If used in enclosed area, use exhaust fans. Exhaust fans should be explosion-proof or set up in a way that explosive concentrations of solvent vapors are not exposed to electrical fixtures or hot surfaces.

PRECAUTIONS                    HANDLING & STORAGE: Keep away from heat, sparks and flames; store in cool, dry place. OTHER: Containers, even empties will retain residue and vapors.

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SECTION 12 MANUFACTURER OR SUPPLIER DATA

FIRM NAME & MAILING ADDRESS      OATEY CO., 4700 West 160th Street, P.O. Box 35906  
Cleveland, Ohio 44135

OATEY PHONE NUMBER      (216) 267-7100

EMERGENCY PHONE NUMBER      For Emergency First Aid call (303) 623-5716 COLLECT For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300

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SECTION 13 DISCLAIMER

The information herein has been compiled from sources believed to be reliable, up-to-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.