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None

#### MATERIAL SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION	
Trade Name:	CARLON ALL WEATHER ENT BLUE PVC CEMENT	
Product Numbers:	VC9992	
Product Use:	Cement for PVC Plastic Pipe	
Formula:	PVC Resin in Solvent Solution	
Synonyms:	PVC Plastic Pipe Cement	
Firm Name &	CARLON ELECTRICAL PRODUCTS c/o OATEY CO. 4700 West 160t	h Stroot
		II SLIEEL
Mailing Address:		
-		
Numbers:		at
Preparation Date:	September 30, 2005	
SECTION 2	COMPOSITION/INFORMATION ON INGREDIENTS	
INGREDIENTS:	<pre>%wt/wt : CAS NUMBER: ACGIH TLV TWA: OSHA PEL TWA: OTHE</pre>	R:
Tetrahydrofuran	40 - 70% 109-99-9 50 ppm(skin) 200 ppm 25 ppm	(Mfg)
	100 ppm STEL	
PVC Resin		
(Non-hazardous)	5. 5.	
Cyclohexanone	10 - 20% 108-94-1 20 ppm(skin) 50 ppm None	
<u>INGREDIENTS:</u> Tetrahydrofuran PVC Resin (Non-hazardous)	For Emergency First Aid call 1-303-623-5716 COLLECT. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the U.S. 1-703-527-3887. Corporate Director - Safety and Environmental Compliance September 30, 2005 COMPOSITION/INFORMATION ON INGREDIENTS $\frac{\text{%wt/wt : }}{40 - 70\%} \frac{\text{CAS NUMBER: }}{109-99-9} \frac{\text{ACGIH TLV TWA: }}{50 \text{ ppm}(\text{skin})} \frac{\text{OSHA PEL TWA: OTHER: }}{200 \text{ ppm }} \frac{\text{CMFG}}{25 \text{ ppm}(\text{Mfg})} \frac{100 \text{ ppm STEL}}{10 - 20\% 9002-86-2} = 10 \text{ mg/m3} = 15 \text{ mg/m3} \text{ None}$	

Amorphous Fumed Silica 1 - 4% (Non-hazardous)

OSHA Hazard Classification:

or hospital.

Flammable, irritant, organ effects

None

Established

50 ppm STEL

## SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview:

Clear blue 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.

112945-52-5 10 mg/m3

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 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

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SECTION 5 H	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 as4H(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 Boiling Point: Melting Point: Vapor Pressure: Vapor Density: Volatile Component Solubility In Wate pH: Specific Gravity: Evaporation Rate: Appearance: Odor: Will Dissolve In: Material Is:	
SECTION 10	STABILITY AND REACTIVITY
Stability: Conditions To Avo Hazardous Decomposition Products:	Stable.
Incompatibility/ Materials To Avoid	Oxidizing agents, alkalis, amines, ammonia, acids, chlorine d: 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 INFORMATION
Inhalation: Skin:	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.
SKIII.	Cyclohexanone may be absorbed through the skin causing effects similar to those listed under inhalation.
Eye:	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 Toxicity:	Prolonged or repeated overexposure cause dermatitis and damage to the kidney, liver, lungs and central nervous system.

Oral rat LD50: 1,620 mg/kg

Inhalation rat LC50: 8,000 ppm/4 hoursSkin rabbit LD50: 1 mL/kgTetrahydrofuran:Oral rat LD50: 1,650 mg/kgInhalation rat LC50: 21,000 ppm/3 hours

Toxicity Data: Cyclohexanone:

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SECTION 11 (Continued)

Sensitization: Carcinogenicity:	None of the components are known to cause sensitization. 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. Tetrahydrofuran is generally thought not to be mutagenic.
Reproductive Toxicity:	Cyclohexanone has been shown to cause embryofetal toxicity and birth defects in laboratory animals. Tetrahydrofuran has been found to cause adverse developmental effects only when exposure levels cause other toxic effects to the mother.
Medical Conditions Aggravated By Exposure:	Persons with pre-existing skin, lung, kidney or liver disorders may be at increased risk from exposure to this product.

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.
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:	650 g/l per SCAQMD Test Method 316A.

SECTION 13DISPOSAL CONSIDERATIONSWaste Disposal: Dispose in accordance with current local, state and federal<br/>regulations.RCRA Hazardous Waste Number: U002, U057, U213EPA Hazardous Waste ID Number: D001, F003EPA Hazard Waste Class: Ignitable Waste.

SECTION 14 TRANSPORT	INFORMATION	
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

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	<b>INFORMATION</b> Acute Health, Chronic Health, Flammable
Section 302 Extremely Hazardous Substances (TPQ): Section 313 Toxic Chemicals:	This product does not contain chemicals regulated under SARA Section 302. This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: <u>Chemical CAS # % by wt.</u> None
CERCLA 103 Reportable Quantity:	Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Tetrahydrofuran (70% maximum) of 1,000 lbs, is 1,430 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 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	1

SECTION 16

NFPA and HMIS:

OTHER INFORMATION

NFPA Hazard Signal: Health: 2 Flammability: 3 Reactivity: 1 Special HMIS Hazard Signal: Health: 2\* Flammability: 3 Reactivity: 1 PPE: G Special: None 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.