	C	CARLON STA	NDARD CLEAR	PVC SOLVENT C	CEMENT	
SECTION 1	IDE	NTITY OF 1	MATERIAL			
Trade Name:	CAR	LON STAND	ARD CLEAR PV	C SOLVENT CEM	ENT	
Product Numbers:	VC9	961P, VC99	962, VC9963,	VC9965, VC99	63C, VC9965C	
Formula:	PVC	Resin in	Solvent Solu	ution		
Synonyms:	PVC	Plastic 1	Pipe Cement			
Firm Name &	CAR	CARLON c/o Oatey Co. 4700 West 160th Street				
Mailing Address:	P.0	P.O. Box 35906 Cleveland, Ohio 44135, U.S.A.				
Oatey Phone Number:	(21	6) 267-710	00			
Emergency Phone	For	Emergency	y First Aid d	call 1-303-62	3-5716 COLLECT. For	
Numbers:	che	mical tra	nsportation e	emergencies Ol	NLY, call Chemtrec at	
	1-8	00-424-930	00			
SECTION 2		COMPOSIT	ION			
INGREDIENTS:		<u>%:</u> <u>C</u>		CGIH TLV TWA:	OSHA PEL TWA: OTHER:	
Acetone		0 - 1%	67-64-1	500 ppm	1000 ppm	
				750 ppm STEL		
Cyclohexanone			108-94-1	25 ppm(skin)	50 ppm	
Tetrahydrofuran		30 - 40%	109-99-9	200 ppm	200 ppm 25 ppm (Mfg)	
				750 ppm STEL		
Methyl Ethyl Ketone			78-93-3	200 ppm	200 ppm	
PVC Resin		10 - 16%	9002-86-2	10 mg/m3	15 mg/m3	
(Non-hazardous)						
Amorphous Fumed Sil	ica	1 - 3%	112945-52-5	10 mg/m3	None	
(Non-hazardous)					Established	

### SECTION 3 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. NFPA Hazard Signal: Health: 2 Stability: 1 Flammability: 3 Special: None HMIS Hazard Signal: Health: 3 Stability: 1 Flammability: 3 Special: None OSHA Hazard Classification: Flammable, irritant, organ effects Canadian WHIMS Classification: Class B, Division 1; Class D, Division 2, Subdivision B

### SECTION 4 EMERGENCY AND FIRST AID PROCEDURES - CALL 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 water for 15 minutes. If irritation persists, seek medical attention.
- 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.

CARLON STANDARD CLEAR PVC SOLVENT CEMENT

SECTION 5 FIRE FIGHTING MEASURES				
Flashpoint / Method:	0 - 5 Degrees F. / 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 Products:	carbon monoxide, carbon dioxide and hydrogen chloride.			

### 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 12 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 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. 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: 600 g/l per SCAQMD Test Method 316A.

VOC

CARLON STANDARD CLEAR PVC SOLVENT CEMENT					
SECTION 9	EXPOSURE CONTROLS/PERSONAL PROTECTION				
Ventilation:	Open doors & windows. Provide ventilation capable of maintaining				
	emissions at the point of use below recommended exposure limit				
		enclosed area, use exhaust fans. Exhaust fans should be			
	-	on-proof or set up in a way that flammable concentrations of			
	solvent vapors are not exposed to electrical fixtures or hot				
	surface				
Respiratory		For operations where the exposure limit may be exceeded, a NIOSH			
Protection:		d organic vapor respirator or supplied air respirator is			
		nded. Equipment selection depends on contaminant type and			
		ration, select in accordance with 29 CFR 1910.134 and good			
		ial hygiene practice. For firefighting, use self-contained			
Skin		ng apparatus.			
Protection:		gloves are suitable for normal use of the product. For long es product chemical resistant gloves may be required such as			
PIOLECCION.		or Silver Shield(tm) to avoid prolonged skin contact.			
Eye		glasses with sideshields or safety goggles.			
Protection:	bareey	grasses with stateshicids of safety goggies.			
Other:	Eve was	h and safety shower should be available.			
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SECTION 10		PHYSICAL AND CHEMICAL PROPERTIES			
Boiling Point		151 Degrees F / 66 C			
Melting Point		N/A			
Vapor Pressur		145 mmHg @ 20 Degrees C			
Vapor Density		(Air = 1) 2.5			
Volatile Comp		86-90%			
Solubility In	Water:	Negligible			
pH:		N/A			
Specific Grav		0.91 + - 0.02			
Evaporation R Appearance:	ale·	(BUAC = 1) = 5.5 - 8.0 Clear Liquid			
Odor:		Ether-Like			
Will Dissolve	. Tn:	Tetrahydrofuran			
Material Is:		Liquid			
SECTION 11		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	1	including carbon monoxide, carbon dioxide and hydrogen			
Products:		chloride.			
Incompatibili	-	Oxidizing agents, alkalies, amines, ammonia, acids, chlorine			
Materials To	Avold:	compounds, chlorinated inorganics (potassium, calcium and			
		sodium hypochlorite) and hydrogen peroxides. May attack			
Honordour		plastic, resins and rubber. Will not occur.			
Hazardous	· ·	WIII NOU OCCUI.			
Polymerization:					
SECTION 12 DISPOSAL INFORMATION					

# SECTION 12 DISPOSAL INFORMATION

Waste Disposal: Dispose in accordance with current local, state and federal regulations.

		LEAR PVC SOLVENT CEMENT			
SECTION 13	TOXICOLOGICAL INFORMAT				
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.				
Skin:	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.				
Eye:	Vapors may cause irritation. Direct contact may cause irritation with redness, stinging and tearing of the eyes. May cause eye damage.				
Ingestion:	diarrhea. Aspiration of	abdominal pain, nausea, vomiting and during swallowing or vomiting can cause d lung damage. May cause kidney and liver			
Chronic	Prolonged or repeated	overexposure cause dermatitis and damage			
Toxicity:	to the kidney, liver,	lungs and central nervous system.			
Toxicity Data:	Acetone:	Oral rat LD50: 5,800 mg/kg			
	Cyclohexanone:	Inhalation rat LC50: 50,100 mg/m3/8 hours			
	Cycronexanone.	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			
Sensitization:		s are known to cause sensitization.			
Carcinogenicity:		s are listed as a carcinogen or suspect			
		RC or OSHA. The National Toxicology Program			
		osure of mice and rats to Tetrahydrofuran to 1800 ppm 6 hr/day, 5 days/week for			
	their lifetime caused an increased incidence of kidney tumor male rats and liver tumors in female mice. The significance these findings for human health are unclear at this time, an				
		ecies specific" effects. Elevated			
		in humans have not been reported for THF.			
Mutagenicity:		tive in a mammal cell cytogenic analysis			
		other assays. At most, acetone is weakly			
		one has been positive in bacterial and			
	-	rahydrofuran was positive in a bacterial			
	laboratory studies.	etone is not considered genotoxic based on			
Reproductive	-	nd cyclohexanone have been shown to cause			
Toxicity:		and birth defects in laboratory animals.			
	Acetone and tetrahydro	ofuran have been found to cause adverse			
		only when exposure levels cause other			
	toxic effects to the r				
Medical		ing skin, lung, kidney or liver disorders			
Conditions	may be at increased r	isk from exposure to this product.			
Aggravated By Exposure:					

CARLON	STANDARD CLEAR PVC SOLVENT	CEMENT					
SECTION 14 TRANSPORTATION INFORMATION							
DOT Less than 1 Liter (0.3 gal) Greater 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)	<b>_</b> ·					
RCRA Hazardous Waste Number:	U002, U057, U213						
EPA Hazardous Waste ID Number							
EPA Hazard Waste Class: Igni		ethyl Ethyl Ketone content)					
2000 North American Emergency							
SECTION 15	REGULATIONS						
Hazard Category for Section	Acute Health, Chronic Heal	th, Flammable					
311/312:							
Section 302 Extremely	This product does not contain chemicals regulated						
Hazardous Substances (TPQ):	under SARA Section 302.						
Section 313 Toxic Chemicals:	This product contains the following chemicals						
	subject to SARA Title III Section 313 Reporting						
	requirements:						
	Chemical CAS #	<u>8</u>					
	Methyl Ethyl Ketone 78-93-	3 30-48%					
CERCLA 103 Reportable	Spills of this product ove						
Quantity:	quantity) must be reported to the National Response						
	Center. The RQ for the product, based on the RQ for						
	Tetrahydrofuran (40% maximum) of 1,000 lbs, is 2,500						
	lbs. Many states have more stringent release						
		port spills required under					
	federal, state and local r						
California Proposition 65:	This product contains trac						
	known to the State of California to cause cancer.						
	Under normal use condition	s, exposures 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 9 to minimize exposure						
	to these chemicals.	<b>L</b> -					
TSCA Inventory:	All of the components of this product are listed on						
-	the TSCA inventory.						
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## SECTION 16 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.