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MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Trade Name: CARLON ELECTRICAL PRODUCTS CLEAR PRIMER - NSF LISTED

Product Numbers: VC9902, VC9903

Product Use: Primer for Cementing Plastic Pipe

Formula: See Section 2

Synonyms: Cleaner

Firm Name & CARLON ELECTRICAL PRODUCTS c/o OATEY CO. 4700 West 160th Street

Mailing Address: P.O. Box 35906 Cleveland, 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 1-303-623-5716 COLLECT. For Numbers: chemical transportation emergencies ONLY, call Chemtrec at

1-800-424-9300. Outside the U.S. 1-703-527-3887.

Prepared By: Corporate Director - Safety and Environmental Compliance

Preparation Date: September 22, 2005

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:	%wt/wt:	CAS NUMBER:	ACGIH TLV TWA:	OSHA PEL TWA	: OTHER:
Methyl Ethyl Ketone	25 - 80%	78-93-3	200 ppm	200 ppm	None
			300 ppm STEL		
Acetone	0 - 40%	67-64-1	500 ppm	1000 ppm	None
			750 ppm STEL		
Tetrahydrofuran	5 - 30%	109-99-9	50 ppm(skin)	200 ppm	25 ppm (Mfg)
			100 ppm STEL		
Cyclohexanone	10 - 20%	108-94-1	20 ppm(skin)	50 ppm	None
			50 ppm STEL		

OSHA Hazard Classification: Flammable, irritant, organ effects

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview:

Clear liquid with a sharp, penetrating 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 1-303-623-5716 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: 0 - 5 Degrees F. (-18 to -15 Degrees C) / PMCC

Flammability: LEL = 1.8 % Volume, UEL = 11.5 % 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 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 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. Combustion will produce toxic and irritating vapors including

Hazardous Combustion will produce toxic and in Decomposition carbon monoxide and carbon dioxide.

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 columns are not exposed to electrical fixtures or both

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) or Silver Shield(tm) to avoid prolonged skin contact.

SECTION 8 (Continued)

Eye Safety glasses with side shields or safety goggles.

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Protection:

Other: Eye wash and safety shower should be available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES 151 Degrees F / 66 Degrees C Boiling Point:

Melting Point: Not applicable

70 mmHg @ 20 Degrees C Vapor Pressure:

Vapor Density: (Air = 1) 2.5

Volatile Components: 100% Solubility In Water: 28 parts

Not applicable

Specific Gravity: 0.84 +/- 0.02 @ 20 Degrees C

Evaporation Rate: (BUAC = 1) = 5.5 - 8.0

Appearance: Clear Liquid

Odor: Sharp, penetrating odor Will Dissolve In: Methyl ethyl ketone

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.

Oxidizing agents, alkalis, amines, ammonia, acids, chlorine Incompatibility/ Materials To Avoid: compounds, chlorinated inorganics (potassium, calcium and

sodium hypochlorite) and hydrogen peroxides. May attack

plastic, resins and rubber.

Hazardous Will not occur.

Polymerization:

SECTION 11 TOXICOLOGICAL INFORMATION

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.

Vapors may cause irritation. Direct contact may cause irritation Eye:

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 Prolonged or repeated overexposure cause dermatitis and damage

to the kidney, liver, lungs and central nervous system. Toxicity:

Toxicity Data: 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

Inhalation rat LC50: 21,000 ppm/3 hours

Acetone: Oral rat LD50: 5,800 mg/kg

Inhalation rat LC50: 50,100 mg/m3/8 hours

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SECTION 11 (Continued)

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: 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 embryofetal toxicity and birth defects in laboratory animals.

Tetrahydrofuran and acetone have 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:

SECTION 12 ECOLOGICAL INFORMATION

This product is not expected to be toxic to aquatic organisms. Acetone: 96 hour LC50 for fish is greater than 100 mg/L. 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. 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: 600 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: U057, U159, U213

EPA Hazardous Waste ID Number: D001, D035, F003, F005

EPA Hazard Waste Class: Ignitable Waste. Toxic Waste (Methyl Ethyl Ketone content)

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SECTION 14 TRANSPORT INFORMATION

DOT Less than 1 Liter (0.3 gal) Greater than 1 Liter (0.3 gal)

Proper Shipping Name: Consumer Commodity Flammable Liquid NOS

Hazard Class/Packing Group: ORM-D 3, PGII UN/NA Number: UN1993 None

Hazard Labels: None Flammable Liquid (Methyl Ethyl Ketone, Cyclohexanone)

IMDG

Proper Shipping Name: Flammable Liquid, N.O.S. Limited Quantity

Hazard Class/Packing Group: 3, II UN Number: UN1993

Label: None (Limited Quantities

> are excepted from labeling)

2004 North American Emergency Response Guidebook Number: 127 or 128

REGULATORY INFORMATION SECTION 15

Hazard Category for Section Acute Health, Chronic Health, 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:

CAS # % by wt. Chemical Methyl Ethyl Ketone $\overline{78-93}-3$

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 Methyl Ethyl Ketone (80% maximum) of 5,000 lbs, is 6,250 lbs. Many states have more stringent release reporting requirements. Report spills required under

federal, state and local regulations.

This product does not contain any chemicals subject California Proposition 65:

To California Proposition 65 regulation.

TSCA Inventory: All of the components of this product are listed on

the TSCA inventory.

Canadian WHIMS Classification: Class B, Division 2; Class D, Division 2,

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

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.