Section 1

MATERIAL SAFETY DATA SHEET # 95

Hercules CPVC Cement, "LOW VOC" Standard (Orange) or Gold

Date Prepared: 11/4/1996 **Last Reviewed:** 11/12/2008

Meets OSHA 29 CFR 1910.1200

HERCULES® MATERIAL SAFETY INFORMATION SERVICE

Hercules Chemical Company Inc.
111 South Street
Passaic NJ 07055
Phone (800) 221-9330
Fax (800) 333-3456

Section 2 - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s), CAS Numbers)	OSHA PEL	ACGIH TLV	Other Limits	Upper Bound Limit if SARA Reportable
This MSDS is for LOW VOC Product (As shown on label) ONLY. For regular product see MSDS #61.				
Tetrahydrofuran (109-99-9)	200 PPM	200 PPM	N/A	--
Methyl Ethyl Ketone (78-93-3)	200 PPM	200 PPM	N/A	--
Cyclohexanone (108-94-1)	50 PPM	20 PPM	N/A	--
Acetone (67-64-1)	1000 PPM	500 PPM	N/A	--

HMIS Hazard Rating: Health: 3 Flammability: 4 Reactivity: 1 Personal Protection: G

Section 3 - Physical/Chemical Characteristics

Boiling Point (°F):	Specific Gravity (H2O = 1):	Vapor Density (Air = 1):	Vapor Pressure (mm Hg):
133 Based on first boiling component-Acetone	0.920 ± 0.03	2.0 to 2.5	190 Based on first boiling component-Acetone

Melting Point (° F):	Evaporation Rate: (Butyl Acetate = 1)	Solubility in Water:	
N/A	7-11	55% to 75%	**VOC Level:** 490 gpl

Appearance And Color: Orange or Yellow/Gold Viscous Liquid **Odor:** Ethereal & Acetone-like

Section 4 - Fire And Explosion Hazard Data

Flash Point:

0-6° F (T.C.C.) (Based on Acetone)

Flammable Limits: LEL: 2% UEL: 13%

Extinguishing Media: Dry chemical. Foam. Carbon dioxide

Special Firefighting Procedures:

Handle as flammable liquid. Wear self-contained breathing apparatus & chemical goggles. Water may be ineffective, but should be used to keep fire-exposed containers cool.

Unusual Fire And Explosion Hazards:

Vapor is heavier than air and travels considerable distance to source of ignition and flashback. On long standing may form peroxides which may cause violent reaction especially upon evaporation to dryness.

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Section 5 - Reactivity Data

Stability: Stable **Conditions To Avoid:** Keep in closed containers away from sparks and open flame.

Incompatability (Materials To Avoid): Strong oxidizing materials, Lithium Aluminum Hydride, Sodium Aluminum Hydroxide, Sodium and Potassium Hydroxides.

Hazardous Decomposition: CO2 and CO are formed. Irritating peroxide fumes form when heated to decomposition.

Hazardous Polymerization: Avoid excessive exposure to air and cationic initiators like Lewis Acids.

Section 6 - Health Hazard Data

Routes of Entry: **Inhalation** Yes/Primary **Skin** Yes/Primary **Ingestion** Yes/Secondary

Health Hazards:

Corrosive to eyes and skin irritant. Severe overexposure can cause headache, dizziness and narcosis. May cause dermatosis with prolonged repeated contact.

Carcinogenicity: **NTP** NO **IARC** NO **OSHA Regulated** NO

Signs And Symptoms of Exposure:

INGESTION: No effects of exposure expected. INHALATION: Will cause irritation of mucous membranes, nose, eyes & throat, coughing, difficulty of breathing. Exposure to high vapor concentration may cause headache, dizziness, nausea, narcosis. SKIN CONTACT: Prolonged contact causes common solvent defatting effect. EYE CONTACT: Vapors slightly uncomfortable, splashes irritating. Will cause painful burning or stinging of eyes and lids, watering of eyes and inflammation of conjunctiva.

Medical Conditions Generally Aggravated By Exposure:

Emergency And First Aid Procedures:

INGESTION: Do not induce vomiting. If conscious, dilute by giving 2 glasses of water. Call a physician immediately. INHALATION: Remove to fresh air. If not breathing give artificial respiration preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician. SKIN CONTACT: Wash affected areas with soapy water. Remove contaminated clothing. EYE CONTACT: Immediately flush eyes with plenty of water for 15 minutes. Consult a physician.

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Section 7 - Precautions For Safe Handling And Use:

Steps To Be Taken In Case Material Is Released Or Spilled:

Eliminate sources of ignition. Absorb with sand or inert absorbing material and dispose of with solid waste according to Federal, State and local regulations. Flush spill area with water, avoid flushing into confined areas.

Waste Disposal Method:

Incinerate in accordance with Federal, State and local regulations.

Precautions To Be Taken In Handling And Storing:

Store in cool place, well-ventilated area. Keep away from open flame and sources of ignition.

Other Precautions:

Use normal good personal hygiene.

Section 8 - Control Measures:

Respiratory Protection:

In confined spaces or other circumstances where adequate ventilation cannot be assured use NIOSH-approved respirator, positive pressure airline mask, or self contained breathing apparatus.

Ventilation:

Local Exhaust As required.

Mechanical All ventilating devices must be located so they do not provide a source of ignition.

Special When using cements in an area of limited ventilation, use a ventilation device such as a fan or air mover to maintain a safe air concentration.

Gloves: PVA gloves.

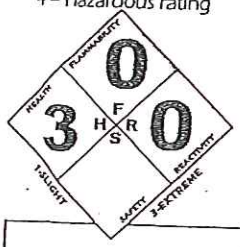
Eye Protection: Chemical safety goggles.

Other Protective Clothing: Apron, boots, eye bath, safety shower.

Other: N/A

Work/Hygienic Practices: Wash thoroughly after handling. Avoid ingestion of the cements. Do not eat or drink when using cements or in the vicinity where such cements are being used.

NFPA RATING
0 = none to
4 = hazardous rating



ACID BOWL CLEANER

S-17507-Q

DATE PREPARED: 02/19/93
DATE REVISED: 0/0/0

MATERIAL SAFETY DATA SHEET (MSDS)

Per 29 CFR 1910.1200

SECTION I

PEN Products
Indiana Department of Correction
6075 Lakeside Boulevard
Indianapolis, Indiana 46278

Toll Free: (800) PEN-2550
Direct: (317) 388-8580

24-Hour Emergency Number - Chemtrec (800)424-9300

Identity (As listed on label): ACID BOWL CLEANER

HMIS HazardRatings:	
Health:	3
Flammability:	0
Reactivity:	0
PPE:	B

SECTION II - HAZARDS INGREDIENTS/IDENTIFICATION INFORMATION

Hazardous Components			ACGIH	OTHER LIMITS	
*Phosphoric Acid	7664-38-2	1 mg/m3	1 mg/m3	STEL 3 mg/m3	14
*Hydrogen Chloride (hydrochloric acid)	7647-01-0	5 PPM	5 PPM ceiling	None	4

SECTION 313 SUPPLIER NOTIFICATION
The toxic chemical(s) listed above which are marked with an (*)are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

SECTION III - PHYSICAL & CHEMICAL PROPERTIES

Boiling Point:	212 F
Specific Gravity (H20=1):	1.093
Vapor Pressure (mm Hg):	Unknown
Melting Point:	Unknown
Vapor Density (Air=1):	Unknown
Evaporation Rate (water=1):	1.0
Solubility in Water:	Complete
Appearance and Odor:	Viscous green liquid, sassafras odor

SECTION IV - FIRE & EXPLOSION HAZARD DATA

Flash Point (Method Used):	None
Flammable Limits	
LEL	NA
UEL	NA
Extinguishing Media:	NA
Special Fire Fighting Procedures:	None Unusual
Unusual Fire and Explosion Hazards:	Prolonged contact with soft metals such as aluminum may result in the release of flammable hydrogen gas.

SECTION V - REACTIVITY DATA

Stability	Stable
Conditions to Avoid:	Freezing
Incompatibility (Materials to Avoid):	Strong alkalis
Hazardous Decomposition or Byproducts:	Acid fumes
Hazardous Polymerization:	May Not Occur
Conditions to Avoid:	None