



MATERIAL SAFETY DATA SHEET  
CHEMTRONICS CW3300  
CIRCUITWORKS OVERCOAT PEN

**1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

<b>COMMERCIAL PRODUCT NAME:</b> CIRCUITWORKS OVERCOAT PEN	<b>CODE NO.</b> CW3300C CW3300G CW3300BLKC CW3300BLKG
<b>MANUFACTURER/SUPPLIER:</b>	<b>CHEMTRONICS, INC.</b> 8125 Cobb Center Drive Kennesaw, Georgia 30152 USA
<b>Phone Number:</b>	1-770-424-4888
<b>Fax Number:</b>	1-770-423-0748
<b>EMERGENCY:</b>	1-703-527-3887

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS	CAS No.	CLASSIFICATION	R PHRASES	CONCENTRATION
Propylene Glycol Methyl Ether Acetate	108-65-6	Xi	R10, R36	5.0-15.0
1-Methyl Propanol	78-92-2	Xn	R10,R20	3.0-10.0
Butyl Acetate	123-86-4	-	R10	5.0-15.0
Toluene	108-88-3	F, Xn	R11, R20	30.0-60.0

**3. HAZARDS IDENTIFICATION**

<b>Main Hazards</b>	Highly Flammable.
<b>Health Effects - Eyes</b>	Liquid may cause acute eye irritation, stinging and swelling.
<b>Health Effects - Skin</b>	Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.
<b>Health Effects - Ingestion</b>	Swallowing may have the following effects: dizziness, light headedness, drowsiness , nausea.
<b>Health Effects - Inhalation</b>	Exposure to vapour at high concentrations may have the following effects: drowsiness, unconsciousness.

**4. FIRST-AID MEASURES**

<b>First Aid - Eyes</b>	Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.
<b>First Aid - Skin</b>	Wash skin with soap and water. Apply a reconditioning skin cream.
<b>First Aid - Ingestion</b>	Give two or more glasses of water. Do not induce vomiting. Obtain medical attention.
<b>First Aid - Inhalation</b>	Remove from exposure. Seek medical attention if you feel unwell.

MATERIAL SAFETY DATA SHEET  
CHEMTRONICS CW3300 CIRCUITWORKS OVERCOAT PEN

**5. FIRE-FIGHTING MEASURES**

<b>Extinguishing Media</b>	Use foam, dry chemical or carbon dioxide.
<b>Unsuitable Extinguishing Media:</b>	Do not use waterjet.
<b>Special Hazards of Product:</b>	This product may give rise to hazardous fumes in a fire.

<b>Protective Equipment for Fire-Fighting:</b>	Wear self contained breathing apparatus.
<b>6. ACCIDENTAL RELEASE MEASURES</b>	
<b>Personal Precautions:</b>	Ventilate the area. Wear appropriate protective clothing.
<b>Environmental Precautions:</b>	Try to prevent the material from entering drains or water courses.
<b>Spillages:</b>	Contain and absorb using earth, sand or other inert material.
<b>7. HANDLING AND STORAGE</b>	
<b>Handling:</b>	Use in well ventilated area.
<b>Storage:</b>	Storage area should be: out of direct sunlight, away from sparks and flames. Storage temperature should be kept below 50°C.
<b>8. EXPOSURE CONTROLS /PERSONAL PROTECTION</b>	
<b>Engineering Control Measures</b>	Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Use of the basic principles of Industrial Hygiene will enable this material to be used safely.
<b>Respiratory Protection</b>	General ventilation should be sufficient.
<b>Hand Protection:</b>	Use a good quality barrier cream.
<b>Eye Protection:</b>	Chemical goggles if there is a risk of eye contact.
<b>Body Protection:</b>	Normal work wear.
<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>Physical State:</b>	Paste
<b>Colour:</b>	clear or green
<b>Odour:</b>	mild hydrocarbon
<b>Boiling Range/Point (°C):</b>	111-140
<b>Explosion Limits (%): Lower/Upper</b>	1.2/10.0
<b>Solubility in water (kg/m<sup>3</sup>):</b>	Appreciable
<b>Vapour Pressure (mm.Hg./20°C)</b>	22-30
<b>Density (kg/m<sup>3</sup>)</b>	0.9

**MATERIAL SAFETY DATA SHEET  
CHEMTRONICS CW3300 CIRCUITWORKS OVERCOAT PEN**

<b>9. PHYSICAL AND CHEMICAL PROPERTIES continued</b>	
<b>Vapour Density (Air=1):</b>	>1
<b>Evaporation Rate:</b>	>1
<b>10. STABILITY AND REACTIVITY</b>	
<b>Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Sources of ignition. Temperatures in excess of 50°C.
<b>Materials to avoid:</b>	Strong oxidizing agents, acids, bases, caustics.
<b>Hazardous Decomposition Products:</b>	Combustion will generate: oxides of carbon, oxides of nitrogen, monomers and smoke.
<b>11. TOXICOLOGICAL INFORMATION</b>	

**Acute Toxicity** Low order of acute toxicity.

**12. ECOLOGICAL INFORMATION**

**Mobility:** No product specific data is available.

**Persistence/Degradability:** No product specific data is available.

**Bio-accumulation:** No product specific data is available.

**13. DISPOSAL CONSIDERATIONS**

**Container Disposal:** Plastic caps and empty containers may be recycled via appropriate routes. Do not incinerate closed containers.

**14. TRANSPORTATION INFORMATION**

**UN Number:** 1263  
**UN Proper Shipping Name:** PAINT  
**UN Class** 3  
**UN Packaging Group** II  
**ADR/RID Substance Identification Number** 1263  
**ADR/RID - Description** Inflammable liquids having a flash-point below 21°C, not toxic and not corrosive.  
**ADR/RID - Class** 3  
**ADR/RID - Item No.** 3b  
**ADR/RID - Hazard Identification Number** 33  
**IMDG - Proper Shipping Name** PAINT  
**IMDG - Packaging Group** II  
**IMDG - Class** 3.2  
**IMDG - Marine Pollutant** No.  
**IMDG - Ems Number** 3-07  
**IMDG - Page Number** 3268  
**IATA - Proper Shipping Name** PAINT  
**IATA - Packaging Group** II  
**IATA - Class** 3  
**Tremcard No. TEC(R)** 527

**MATERIAL SAFETY DATA SHEET  
CHEMTRONICS CW3300 CIRCUITWORKS OVERCOAT PEN**

**15. REGULATORY INFORMATION**

**Labeling Information**

**F, Xn** Highly Flammable. Harmful.

**R Phrases:** Highly Flammable. Harmful by inhalation.

**S Phrases:** Keep away from sources of ignition - No Smoking. Keep away from children. Do not breathe vapour/spray. Avoid contact with eyes.

**16. OTHER INFORMATION:**

**PRODUCT INFORMATION: 1-770-424-4888**

**Product Use:** For industrial use only.

**MSDS first issued:** 5/31/96

**MSDS data revised:** 3/17/98

**EC Legislation**

EC Directive 91/155/EEC defining the laying down and detailed arrangements for the system of specific information relating to dangerous preparations.

EC Directive 88/379/EEC relating to the classification, packaging and labelling of dangerous preparations.

To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.