

**GC Electronics**  
1801 Morgan Street  
Rockford, IL 61102  
Phone: (815) 968-9661  
Fax: (815) 968-9731  
www.gcelectronics.com

**Product Name: Red Insulating Varnish**  
MSDS Number: 129  
Revision Date: 12/23/03  
Supersedes Date: 1/15/03

**MATERIAL SAFETY DATA SHEET**

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: Coating  
Product Name: **Red Insulating Varnish**  
Part Number(s): **10-9002**  
**10-9002-1G**  
**10-9008**  
Emergency Contact: **Chemtrex**  
Phone: **(800) 424-9300**

**Section 1 – Identification of Product**

HMIS RATINGS

Health:	2	Least	0
Flammability:	3	Slight	1
Reactivity:	0	Moderate	2
Personal Protection:		High	3
		Extreme	4
		Gloves, Safety Glasses	B

**Section 2 – Hazardous Ingredients**

Ingredient	CAS #	% Wght	VP (mmHg)	VD		ppm	mg/m3
Ethyl Benzene*		< 10	7.0	> 1	OSHA	100.00	435.00
	100-41-4		@ 20°C		ACGIH	100.00	434.00
Xylene (Mixed Isomers)*		< 43	6.7	ND	OSHA	100.00	435.00
	1330-20-7		@ 21°C		ACGIH	100.00	434.00
Iron Oxide		< 18	NA	NA	OSHA	ND	15.00
	1332-37-2				ACGIH	ND	10.00
Cobalt Compounds*		< 1	ND	ND	OSHA	ND	0.1000
	Mixture				ACGIH	ND	0.0500

\*Appears in Section 313 of the Toxic Chemicals list of Title III of the Superfund Amendment and Reauthorization Act (SARA) of 1986.

All components of this product are listed on the TSCA Section 8 (b) Inventory or are exempt from the inventory.

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<b>Section 3 – Physical Data</b>
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Boiling Point:	> 200°F
Evaporation Rate (Butyl Acetate=1)	No data
Weight Per Gallon (25°C):	9.054 lbs/gl
Vapor Density (Air=1):	No data
Volatile by Weight:	50.0%
Volatile by Volume:	63.0%
Specific Gravity:	1.09
VOC:	1.136 g/Liter

For compliance with VOC regulations, the VOC content must be calculated on an “as applied” basis. The volatile by weight and volatile by volume data on this MSDS should not be used to determine compliance with VOC regulations.

<b>Section 4 – Fire and Explosion Hazard Data</b>
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Flammability Classification:	OSHA: Flammable Liquid – Class IC
Flash Point:	78°F estimate
Lower Explosive Limit (LEL):	No data
Upper Explosive Limit (UEL):	No data
Extinguishing Media:	Carbon dioxide, dry chemical, foam, and vaporizing liquid type extinguishing agents have all been found suitable for use on flammable liquid fires of moderate size. Water spray (fog) is particularly effective on fires in flammable liquids and volatile solids having flash points above 100°F; but with liquids having flash points above 212°F, frothing may occur.
Unusual Fire and Explosion Hazards:	A straight stream of water will spread fire. A vapor accumulation will flash and/or explode if ignited. Containers may burst explosively if overheated in fire. Cool containers with water spray or fog. Empty containers may also present a fire and/or explosion hazard due to residual vapors.
Special Fire Fighting Procedures:	Remove all ignition sources. Keep personnel not involved with emergency activities away and upwind of fire. Water spray may be ineffective and may cause fire to spread. If water is used, fog nozzles are preferable. Water may be used to cool closed containers in order to prevent pressure build-up which may result in an explosion. Use self-contained breathing apparatus and protective clothing.

<b>Section 5 – Health Hazard Data</b>
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Primary Route(s) of Entry:	<input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Skin Contact <input type="checkbox"/> Ingestion
Exposure Limit:	Refer to Section 2 for complete PEL/TLV data.
Acute Effects of Overexposure:	
Inhalation:	Breathing high concentrations of vapors or mist may cause upper respiratory tract irritation and may be associated with cardiac irregularities. May affect the brain or nervous system, causing dizziness, headache, or nausea.
Skin Contact:	Prolonged or repeated contact can cause moderate irritation defatting, and dermatitis.

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Eye Contact:	Vapors may be irritating. Direct contact of product with eye may cause moderate irritation with corneal injury.								
Skin Absorption:	May be harmful if absorbed through skin.								
Ingestion:	Harmful if swallowed. Can cause mouth, throat, and gastrointestinal tract irritation, nausea, vomiting, and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.								
Chronic Effects of Overexposure:	Repeated excessive exposures to this product may cause central nervous system, liver, and kidney effects and respiratory or eye irritation.								
Carcinogenicity:	<table border="0"> <tr> <td>Cobalt Compounds</td> <td><input checked="" type="checkbox"/> IARC</td> <td><input type="checkbox"/> NTP</td> <td><input type="checkbox"/> OSHA</td> </tr> <tr> <td>Ethyl Benzene</td> <td><input checked="" type="checkbox"/> IARC</td> <td><input type="checkbox"/> NTP</td> <td><input type="checkbox"/> OSHA</td> </tr> </table>	Cobalt Compounds	<input checked="" type="checkbox"/> IARC	<input type="checkbox"/> NTP	<input type="checkbox"/> OSHA	Ethyl Benzene	<input checked="" type="checkbox"/> IARC	<input type="checkbox"/> NTP	<input type="checkbox"/> OSHA
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Ethyl Benzene	<input checked="" type="checkbox"/> IARC	<input type="checkbox"/> NTP	<input type="checkbox"/> OSHA						
Medical Conditions Generally Aggravated by Overexposure:	Skin contact may aggravate an existing dermatitis.								
Additional Toxicity Information:	This material (or its components) was found to be teratogenic in animal studies.								
Emergency and First Aid Procedures									
Inhalation:	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician.								
Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.								
Skin Contact:	In case of contact, immediately flush skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash and thoroughly clean contaminated clothing and shoes before reuse. Consult a physician.								
Ingestion:	If swallowed, consult a physician. Never give anything by mouth to an unconscious person.								

<b>Section 6 – Reactivity Data</b>
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Stability:	Stable
Conditions to Avoid:	Open flame, sparks, or high temperature.
Incompatibility (materials to avoid):	Strong oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition and burning may produce carbon dioxide and carbon monoxide.
Hazardous Polymerization:	Will not occur.

<b>Section 7 – Spill or Leak Procedures</b>
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Steps to be taken in case material is released or spilled:	Remove all ignition sources. Provide adequate ventilation. Avoid breathing vapors. Shut off source of spill if it can be done safely. use non-sparking tools. Absorb with inert absorbent material and dispose of in accordance with applicable regulations.
Waste Disposal Method:	Dispose of in accordance with applicable federal, state, and local regulations. Under the Resource Conservation and Recovery Act (RCRA) regulations, it is the responsibility of the product user to determine, at the time of disposal, whether a material should be classified as a hazardous waste. Consult your attorney or appropriate regulatory affairs officer for information on proper disposal.

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**Section 8 – Special Protection Information**

Respiratory Protection:	Wear an appropriate, properly-fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates that vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use.
Ventilation:	Use with adequate ventilation. Provide general dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the applicable exposure limit (OSHA PEL) of the combined components listed in Section 2 and below the LEL listed in Section 4. All application areas should be ventilated in accordance with applicable OSHA regulations. (29 CFR 1910.94)
Protective Gloves:	Impervious gloves required.
Eye Protection:	Use safety eyewear designed to protect against splash of liquids.
Other Suggested Protective Equipment:	Eyewash, safety shower, impervious clothing and boots. Selection of specific personal protective equipment will depend on the product user's operation.
Hygienic Practices:	Wash thoroughly after handling.

**Section 9 – Special Precautions**

Precautions to be taken in handling and storage:	Do not store above 120°F. Keep closure tight and container upright to prevent leakage. Store container out of sunlight and away from heat, sparks, and flame. Store only in well-ventilated areas. Containers should be grounded when being emptied. Never use pressure to empty. Container is not a pressure vessel. Do not puncture, drag, or slide container.
Other Precautions:	ATTENTION: Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks, and flames. Do not cut, puncture, or weld on or near this container. Follow label warnings until container is thoroughly cleaned or destroyed. Do not get in eyes. Avoid skin contact. Prevent repeated or prolonged breathing of vapor or spray mist. Avoid contact with or breathing of vapors during curing process.

**Section 10 – Regulatory Information**

DOT Description:	
Shipping Name:	Paint
Hazard Class:	3
UN/NA #:	UN1263
Packing Group:	III
Label:	ORM-D
Description:	Zylene Mixture
Toxic Substances Control Act (TSCA) Status:	All components of this product are listed on the TSCA Section 8(b) Inventory or are exempt from the inventory.

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SARA Section 312 Hazard Categories:  Fire Hazard  
 Pressure Hazard  
 Reactivity Hazard  
 Acute Health hazard  
 Chronic Health Hazard

## SARA Section 313 Status:

Component/Category Name	CAS Number	Weight %
Ethyl Benzene	100-41-4	< 10
Xylene (Mixed Isomers)	1330-20-7	< 43
Cobalt Compounds		< 1

## Massachusetts Right to Know:

Component	CAS Number	Weight %
Ethyl Benzene	100-41-4	< 10
Xylene (Mixed Isomers)	1330-20-7	< 43
Benzene	71-43-02	Trace

## Pennsylvania Right to Know:

Component	CAS Number	Weight %
Ethyl Benzene	100-41-4	< 10
Xylene (Mixed Isomers)	1330-20-7	< 43

## California Proposition 65 Status:

Warning: This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**Disclaimer**

GC Electronics believes that the information contained herein is accurate and reliable as of the date of this material safety data sheet, but no representation guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Persons receiving this information are encouraged to make their own determination as to the information's suitability and completeness for their particular application. NO INFORMATION CONTAINED HEREIN CONSTITUTES A PRODUCT WARRANTY OF ANY KIND, WHETHER EXPRESS OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.