

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: 307
 Revision Date: 1/13/09
 Supersedes Date: NEW

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): **10-9008 -A**
10-9002-A
10-9002-A1G

Emergency Contact: Chemtrec
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 #	% Wt	VP (mmHg)		ppm	mg/m3
Ethyl Benzene*		< 6	7.0	OSHA	100.00	435.00
	100-41-4		@ 20°C	ACGIH	100.00	434.00
Xylene (Mixed Isomers)*		< 45	6.7	OSHA	100.00	435.00
	1330-20-7		@ 21°C	ACGIH	100.00	434.00
Iron Oxide		<18 ND		OSHA	ND	15.00
	1332-37-2			ACGIH	ND	10.00
Black Iron Oxide		< 6ND		OSHA	ND	0.1000
	1317-61-9			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.

This product contains a particulate(s) that is considered hazardous per OSHA (29 CFR 1910.1200) and is listed in Section II as a precautionary warning. Under normal conditions of use this product as supplied does not pose a health risk from particulate matter. Physical degradation of the cured product (i.e., sanding, abrading, etc.) may pose a dust hazard. Repeated inhalation of such dust may cause lung injury.

Section 3 – Physical Data

Boiling Point:	No data
Evaporation Rate (Butyl Acetate=1)	No data
Weight Per Gallon (25°C):	8.840 lbs/gal
Vapor Density (Air=1):	No data
Volatile by Weight:	48%
Volatile by Volume:	No data
Specific Gravity:	1.06
VOC:	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.

Section 4 – Fire and Explosion Hazard Data

Flammability Classification:	OSHA: Flammable Liquid – Class IA
Flash Point:	59°F Tested
Lower Explosive Limit (LEL):	1%
Upper Explosive Limit (UEL):	7%
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:	During a fire, oxides of nitrogen may be produced. 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.

Section 5 – Health Hazard Data

Primary Route(s) of Entry: Inhalation Skin Contact 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 severe respiratory irritation. May affect the brain or nervous system, causing dizziness, headache, or nausea.

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Skin Contact: Prolonged or repeated contact can cause skin irritation .

Eye Contact: Vapors may be irritating. Direct contact of product with eye may cause moderate irritation with corneal injury.

Skin Absorption: No data available.

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: Ethyl Benzene X IARC __ NTP __ OSHA

Medical Conditions Generally Aggravated by Overexposure: May aggravate existing eye, skin and/or respiratory disorders.

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, give 2 glasses of water and do not induce vomiting. Consult a physician. Never give anything by mouth to an unconscious person.

Section 6 – Reactivity Data

Stability: Stable

Conditions to Avoid: Open flame, sparks, or high temperature.

Incompatibility (materials to avoid): Acids, bases, strong oxidizers..

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide and toxic vapors. Thermal decomposition and burning may produce carbon dioxide and carbon monoxide.

Hazardous Polymerization: Will not occur.

Section 7 – Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Remove all ignition sources. Ventilate area. Wear protective equipment during clean-up. Avoid breathing vapors. Shut off source of spill if it can be done safely. use non-sparking tools. Absorb spill with non-biodegradable, non-compressible absorbent and place in a closed container. If large spill occurs, dike area to prevent this material from entering water system.

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.

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.

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.

Other Precautions: 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.

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Section 10 – Regulatory Information

DOT Description:
 Shipping Name: Paint
 Hazard Class: 3
 UN/NA #: UN1263
 Packing Group: II
 Label: ORM-D (CFR49 173-150) Exceptions for Class 3 (flammable) and
 combustible liquids.
 Description: Xylene 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.

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	< 6
Xylene (Mixed Isomers)	1330-20-7	< 45

Massachusetts Right to Know:

Component	CAS Number	Weight %
Ethyl Benzene	100-41-4	< 6
Xylene (Mixed Isomers)	1330-20-7	< 45
Crystalline Silica	14808-60-7	Trace

Pennsylvania Right to Know:

Component	CAS Number	Weight %
Ethyl Benzene	100-41-4	<6
Xylene (Mixed Isomers)	1330-20-7	< 45

Canada Right to Know:

Component	CAS Number	Weight %
Ethyl Benzene	100-41-4	<6
Black Iron Oxide	1317-61-9	<6

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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

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