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MSDS Number: 307
Revision Date: 1/13/12
Supersedes Date: 01/13/09

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: Red Insulating Varnish

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Type:	Coating	Emergency Contact:	Chemtrec
Product Name:	Red Insulating Varnish	Phone:	(800) 424-9300
Part Number(s):	10-9008-A 10-9002-A 10-9002-A1G		

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form	: Liquid
Color	: Red
Odor	: Aromatic
Hazard Summary	: HARMFUL BY INHALATION. IRRITATING TO EYES. HARMFUL IN CONTACT WITH SKIN. HIGHLY FLAMMABLE.

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR1910.1200)

Potential Health Effects

Eyes	: Direct contact of product with eye may cause moderate irritation with corneal injury. Direct contact with the product or exposure to vapors or mist may cause stinging, tearing and redness.
Skin	: Can cause irritation which may include the following symptoms: reddening, swelling, rash, scaling or blistering. May be harmful if absorbed through skin. May produce central nervous system depression with headache and/or nausea.
Ingestion	: Harmful if swallowed. May cause gastrointestinal irritation and central nervous system effects such as dizziness, drowsiness, and/or loss of coordination.



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SECTION 2. HAZARDS IDENTIFICATION

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.
 Repeated exposure to high concentrations may cause liver and/or kidney damage.
 Physical degradation of the cured product (i.e. sanding, abrading, etc.) may pose a dust hazard.

Chronic Exposure : Repeated excessive exposure to this product may cause central nervous system, liver, or kidney effects and respiratory or eye irritation.
 Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.
 Overexposure to this material (or its components) may cause hearing loss based on animal studies.

Aggravated Medical Condition : Respiratory disorders
 Skin disorders
 Kidney disorders
 Liver disorders

Primary Routes of Entry : Inhalation
 Skin contact
 Skin absorption

Carcinogenicity:

IARC	Ethylbenzene	100-41-4
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No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH	Ethylbenzene	100-41-4
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Environmental Effects

Environmental Effects : No information available.



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SECTION 3. PHYSICAL DATA

Chemical nature

Epoxy Paint

Hazardous components

The specific chemical identity/weight percent of proprietary ingredient(s) is a trade secret

Component	CAS-No.	Weight percent
Xylene	1330-20-7	30.00 - 60.00
Iron oxide	1332-37-2	10.00 - 30.00
Ethylbenzene	100-41-4	5.00 - 10.00
Iron(III) oxide	1317-61-9	1.00 - 5.00

SECTION 4. HEALTH HAZARD DATA

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.
- 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.
- Eye contact : In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Consult a physician.
- Ingestion : If swallowed, consult a physician. This material (or its components) may present an aspiration hazard. Never give anything by mouth to an unconscious person.

Notes to physician

- Risks : No information available.

Product Name: Red Insulating Varnish

SECTION 5. FIRE AND EXPLOSION DATA

Flammable Properties

Flash point	:	15 °C (59 °F) Method: No information available.
Lower explosion limit	:	1.1 %(V)
Upper explosion limit	:	7.0 %(V)
Suitable extinguishing media	:	Carbon dioxide (CO ₂) Foam Dry powder Water mist Water spray
Unsuitable extinguishing media	:	Do NOT use water jet.
Special protective equipment for fire-fighters	:	Wear a positive-pressure supplied-air respirator with full facepiece. Use personal protective equipment.
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Cool containers / tanks with water spray. Flash back possible over considerable distance. The pressure in sealed containers can increase under the influence of heat. Cool closed containers exposed to fire with water spray.
Hazardous decomposition products due to incomplete combustion.	:	Carbon oxides nitrogen oxides (NO _x)
Further information	:	Remove ignition sources Immediately evacuate personnel to safe areas. Use a water spray to cool fully closed containers.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Remove all sources of ignition.
Ensure adequate ventilation.
Avoid breathing vapors.
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Clean contaminated floors and objects thoroughly while observing environmental regulations.
- Methods for containment : Stop leak. Dike and contain spill.
- Methods for cleaning up : Absorb with inert absorbent material and dispose of in accordance with applicable regulations.
- Additional advice : Shut off source of spill if it can be done safely.
Use non-sparking tools.

SECTION 7. HANDLING AND STORAGE

- Handling** : 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.
Avoid contact with or breathing of vapors during curing process.
Do not get in eyes. Prevent repeated or prolonged breathing of vapor or spray mist.

Storage

- Advice on common storage : Do not store above 49°C (120 °F).



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Xylene	1330-20-7	TWA	100 ppm	2007-01-01	ACGIH
		STEL	150 ppm	2007-01-01	ACGIH
		TWA	100 ppm 435 mg/m3	1997-08-04	OSHA P1
		TWA	100 ppm 435 mg/m3	1989-01-19	OSHA P0
		STEL	150 ppm 655 mg/m3	1989-01-19	OSHA P0
Ethylbenzene	100-41-4	TWA	100 ppm	2009-01-01	ACGIH
		STEL	125 ppm	2009-01-01	ACGIH
		TWA	100 ppm 435 mg/m3	1997-08-04	OSHA P1
		TWA	100 ppm 435 mg/m3	1989-01-19	OSHA P0
		STEL	125 ppm 545 mg/m3	1989-01-19	OSHA P0

Engineering Measures : Use with adequate ventilation. All applications should be ventilated in accordance with applicable OSHA regulations. (29CFR 1910.94) This product contains a particulate(s) that is considered hazardous per OSHA (29CFR 1910.1200) and is listed in Section III 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. Repeatd inhalation of such dust may cause lung injury.



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

- Eye protection : Use safety eyewear designed to protect against splash of liquids. Ensure that eyewash stations and safety showers are close to the workstation location.
- Hand protection : Impervious gloves
- Skin and body protection : Impervious gloves
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : Wear an appropriate, properly-fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrated that vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use.
- Hygiene measures : Do not get in eyes
Do not get on skin
Avoid prolonged or repeated breathing of vapor
Wash thoroughly after handling

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : Liquid
Color : Red
Odor : Aromatic
Odor threshold : no data available
Flash point : 15°C (59 °F)
Method: No information available
Ignition temperature : no data available
Lower explosion limit : 1.1% (V)
Upper explosion limit : 7.0% (V)
pH : no data available
Freezing point : no data available
Boiling point/boiling range : 136°C (277 °F)
Vapor pressure : 6.7 hPa at 20°C (68 °F)
Evaporation rate : no data available
Density : 1.06g/cm³ at 20°C (68 °F)
Bulk density : 1,059 kg/m³
Partition coefficient: n-octanol water : no data available
Relative vapor density : no data available



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SECTION 10. STABILITY AND REACTIVITY DATA

Conditions to avoid : Keep away from open flames, hot surfaces and sources of ignition.
Materials to avoid : Strong oxidizing agents
Reducing agents
Hazardous decomposition products : Carbon dioxide, carbon monoxide and toxic vapors.
nitrogen oxides (NOx)
Chemical stability : Stable

SECTION 11. TOXICOLOGICAL INFORMATION SELECTION

Acute oral toxicity (Component) : Component: 1330-20-7 Xylene
LD50 rat
Dose: 3,523 mg/kg
Component: 100-41-4 Ethylbenzene
LD50 rat
Dose: 3,500 mg/kg

Acute dermal toxicity (Component) : Component: 1330-20-7 Xylene
LD50 rabbit
Dose: 1,700 mg/kg
Component: 100-41-4 Ethylbenzene
LD50 rabbit
Dose: 5,510 mg/kg

Acute inhalation toxicity (Component) : Component: 1330-20-7 Xylene
LC50 rat
Dose: 5000 ppm
Exposure time: 4 h
Component: 100-41-4 Ethylbenzene
LC50
no data available

Skin irritation (Component) : Component: 1330-20-7 Xylene
rabbit
Result: Moderate skin irritation
Component: 100-41-4 Ethylbenzene
rabbit
Result: Moderate skin irritation

Eye irritation (Component) : Component: 1330-20-7 Xylene
rabbit
Result: Eye irritation
Component: 100-41-4 Ethylbenzene
rabbit
Result: Moderate eye irritation



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SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information (Product) : no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : 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 14. TRANSPORTATION INFORMATION

DOT UN Number : 1263
Proper shipping name : Paint
Class : 3
Packing group : II
Label : ORM-D (CFR49 173-150) Exceptions for Class 3 (flammable) and combusive liquids.

Description : Xylene Mixture

IATA

Description of the goods : Paint
Class : 3
Packing group : II
ICAO-Labels : 3
Packing instruction (cargo aircraft) : 307
Packing instruction (passenger aircraft) : 305
Package Instruction (Limited quantity) : Y305

IMDG

UN Number : UN 1263
Description of the goods : Paint
Class : 3
Packing group : II
IMDG-Labels : 3
Marine pollutant : no



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SECTION 15. REGULATORY INFORMATION

HMIS Classification : Health hazard: 2
 Chronic Health Hazard
 Flammability: 3
 Reactivity: 0
 PPI: Safety Glasses, Gloves

National Fire Protection Association (NFPA) Class : IB

Emergency Planning Community Right-To-Know (EPCRA)

SARA 302 Components : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

If listed below, this product contains toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

SARA 313 Components :	Xylene	1330-20-7	42.1%
	Ethylbenzene	100-41-4	5.6%

SARA 311/312 Hazards : Acute Health Hazard
 Chronic Health Hazard
 Fire Hazard

Reportable Quantity : 237 lbs

Toxic Substances Control Act (TSCA)

TSCA Status : We certify that all of the components of this product are either listed on the TSCA Inventory or are not subject to the notification requirements per 40 CFR 720.30(h).

Section 12(b) : If exporting, contact EHS Department
 p-Xylene (106-42-3)

Clean Air Act & Related Information

Non-volatile (Wt) : 51.5 %
 Method: Not available

Non-volatile information is not a specification.

Hazardous Air Pollutants

Xylene	1330-20-7
Ethylbenzene	100-41-4

If not listed above, this product does not contain HAPs at 1% or 0.1% greater. Refer to Section 3 for HAP weight percentage.



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SECTION 15. REGULATORY INFORMATION (CONT.)

Resource Conservation and Recovery Act

EPA Hazardous Waste Code(s) : D001 Ignitable

State Laws

Massachusetts Right To Know Components : Xylene 1330-20-7
 Ethylbenzene 100-41-4
 Crystalline silica 14808-60-7

Pennsylvania Right To Know Components : Xylene 1330-20-7
 Acrylic/Styrene Copolymer -
 Iron oxide 1332-37-2
 Ethylbenzene 100-41-4
 Toluene 108-88-3

New Jersey Right To Know Components : Xylene 1330-20-7
 Acrylic/Styrene Copolymer -
 Iron oxide 1332-37-2
 Ethylbenzene 100-41-4
 Iron(III) oxide 1317-61-9

New Jersey Trade Secret Registry Number for the product (NJ TSRN) : NOT APPLICABLE

California Prop. 65 Components : WARNING! This product contains a chemical known to the State of California to cause cancer.
 Ethylbenzene 100-41-4
 Crystalline silica 14808-60-7
 WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
 Toluene 108-88-3

Canadian Environmental Protection Act

Domestic Substances List

DSL Status : We certify that all of the components of this product are listed on the DSL.

WHMIS Classification : B2
 D2A
 D2B



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SECTION 16. OTHER INFORMATION

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 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 MERCHANT ABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.