

Material Safety Data Sheet

Revision Date November 9, 2010	Prepared by Patti Rogers	Technical Information 1-800-201-8822 or support@mgchemicals.com
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Section 1: Product Identification

MSDS Code: 4228 **Name: Red Insulating Varnish**

Related Part Numbers: 4228-55ML, 4228-1L, 4228-4L

Use: High voltage protective coating for motor windings.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha PeI	Osha Stel
1330-20-7	Xylene	<45%	100ppm	100ppm	150ppm
1309-37-1	Red Iron Oxide	<6%	*N/E	*N/E	*N/E
100-41-4	Ethyl Benzene	<6%	100ppm	100ppm	N/E
1332-37-2	Iron oxide	<18%	N/E	N/E	N/E

Section 3: Hazards Identification

Eyes:	Causes eye irritation.
Skin:	Possible absorption through skin. Prolonged exposure de-fats skin producing flaky cracking dermatitis
Inhalation:	Harmful if inhaled. May cause nausea, dizziness, hallucinations, headache, and loss of coordination.
Ingestion:	Harmful if swallowed. Burning in mouth, stomach. May cause headache, dizziness, nausea, vomiting, and abdominal pain. May cause central nervous system depression.
Chronic:	No effects known.

Section 4: First Aid Measure

Eyes:	Remove contact lenses. Flush with water or saline. Get medical aid.
Skin:	Wash skin with soap and water. Remove contaminated clothing. Get medical aid if symptoms persist.
Inhalation:	Immediately remove from exposure to fresh air.
Ingestion:	Do not induce vomiting. Keep person warm. Get medical aid.

Section 5: Fire Fighting Measures

Autoignition Temperature:	272°C	Flash Point:	15°C	LEL / UEL:	1 / 7
Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or chemical foam.				
General Information:	Vapor is heavier than air and may travel along the ground or may be moved by ventilation and ignited.				

Section 6: Accidental Release Measures

Spill Procedure:	Remove all sources of ignition. Provide adequate ventilation. Wear appropriate personal protection. Sprinkle absorbent compound onto spill, then sweep into a plastic or metal container. Wipe up further residue with paper towel and place in container. Wash spill area with soap and water.
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Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do not expose container to heat or flame.

Storage: Keep away from sources of ignition. Store in a cool, dry, well-ventilated area, away from incompatible substances. Keep from freezing.

Section 8: Exposure Controls

Routes of entry: Eyes, ingestion, inhalation, and skin.

Ventilation: Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

Personal Protection: Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective clothing to prevent skin contact. Use a NIOSH approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical State:	Red Liquid	Odor:	N/E	Solubility in water:	Insoluble	Evaporation Rate:	N/A
Boiling Point:	N/A	Specific Gravity:	1.06	Vapor Pressure:	1 PSI @20°C	Vapor Density:	N/A
						pH:	N/E

Section 10: Stability and Reactivity

Stability: Stable at normal temperatures and pressures.

Conditions to avoid: Temperatures over 40°C, ignition sources, strong oxidizing agents and incompatible substances.

Incompatibilities: Strong acids, bases, oxidizing agents, sodium, barium, and aluminum.

Polymerization: Will not occur.

Decomposition: Carbon monoxide, carbon dioxide, and water. Toxic vapors possible due to incomplete combustion.

Section 11: Toxicological Information

Sensitization: (effects of repeated exposure) Prolonged or repeated skin contact may cause dermatitis.

Carcinogenicity: (risk of cancer) Ethyl benzene: IARC – 2B – Possibly carcinogenic to humans

Teratogenicity: (risk of malformation in an unborn fetus) No

Reproductive Toxicity: (risk of sterility) The CCOHS list Xylene as a reproductive Hazard.

Lethal Exposure Concentrations:	Ingestion (LD50):	Inhalation (LC50):	Skin (LD50):	Inhalation (TCLo):
Xylene	2119 mg/kg Mouse	5000 ppm/4H Mouse	>1700 mg/kg Rabbit	15 mg/m ³ /24H/85D Rat
Red Iron Oxide	N/A	N/A	N/A	50 mg/m ³ /12H Rat
Iron oxide	N/A	N/A	N/A	N/A
Ethyl benzene	3500 mg/kg Rat	35500 mg/m ³ /2H mouse	17800 uL/kg Rabbit	740 ppm/6H/92D Rat

Mutagenicity: (risk of heritable genetic effects) No

Section 12: Ecological Information

General Information:	Avoid runoff into storms and sewers, which lead into waterways. Water runoff can cause environmental damage
Volatile Organic Compounds, % by weight:	65%
Volatile Organic Compounds, grams per litre:	540 g/L

Section 13: Disposal Information

General Information: Dispose of in accordance with all local, provincial, state, and federal regulations. Water runoff can cause environmental damage.

Section 14: Transportation Information

Ground: (all sizes 4 liter or less)

Classified as **Consumer Commodity/ORM-D**.

Ground: (all sizes larger than 4 liter)

Shipping Name: **PAINT**, UN number: **1263**, Class: **3**, Packing Group: **II**, Flash Point: **-18°C**. **Shipper must be trained and certified. Refer to TDG regulations (Canada), Refer to CFR 49 regulations (USA).**

Air:

Shipper must be trained and certified. Refer to IATA Dangerous Goods Regulations.

Shipping Name: **PAINT**, UN number: **1263**, Class: **3**, Packing Group: **II**, Flash Point: **-18°C**. Subsidiary Risk – nil, Recommend using original MG Chemicals certified outer cartons. Tape all seams on the carton. Hazard Label required – Flammable Liquid. A double arrow orientation label is required and is already printed on the original outer carton.

Sea:

Shipper must be trained and certified. Refer to IMDG regulations.

Shipping Name: **PAINT**, UN number: **1263**, Class: **3**, Packing Group: **II**, Flash Point: **-18°C**. Storage category "A", segregation as for class 9 but away from sources of heat and separated from goods of class 1 except for those in division 1.4.

Section 15: Regulatory Information

CANADA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

DSL

All ingredients in this product are listed on the Domestic Substances List

Health Canada

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling regulations.

Industry and Science Canada

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product is in compliance.

WHMIS

This product belongs to the following categories: **B2, D2A**

USA

CAA (Clean Air Act, USA)

This product does not contain any class 1-ozone depletors.

This product does not contain any class 2-ozone depletors.

This product does not contain any chemicals listed as hazardous air pollutants.

SARA (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFR 372.4)

This product does contain toxic chemicals 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 Ethyl Benzene (5%)# 100-41-4 and Xylene (15%) CAS#1330-20-7.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product does contain chemicals subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.Ethyl Benzene (5%) CAS# 100-41-4, Xylene (45%) CAS#1330-20-7.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

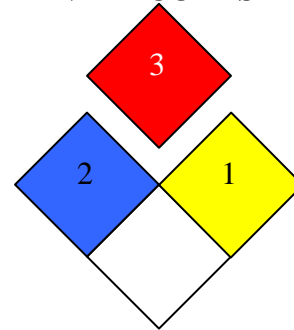
California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

This product contains Ethyl benzene and Xylene, known to the state to cause cancer.

HMIS RATING

HEALTH:	2
FLAMMABILITY:	3
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	

NFPA CODES



EUROPE

RoHS

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, or PBDE's, and complies with European RoHS regulations.

WEEE

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

Section 16: Other Information

Definitions: N/a = not applicable, n/e = not established

Disclaimer: This material safety data sheet is provided as an information resource only. M.G. Chemicals believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.