

Material Safety Data Sheet

Revision Date November 8, 2007	Prepared by Patti Rogers	Technical Information 1-800-201-8822 or support@mgchemicals.com
Head Office 9347 - 193 Street, Surrey, B.C., Canada V4N 4E7		Emergency Phone Canutech (613) 996-6666 Collect 24 hrs

For updates please download from www.mgchemicals.com or fax requests to 1-800-708-9888

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 Pel	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

WHMIS Codes: B2, D2A

NFPA Ratings: Health 2 Flammability 3 Reactivity 0

HMIS Ratings: Health 2 Flammability 3 Reactivity 0

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:	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)	No



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

Reproductive Toxicity: (risk of sterility) This product contains xylene, a known embryo toxin. Pregnant women must avoid all contact with this product.

Mutagenicity: (risk of heritable genetic effects) No

Lethal Exposure Concentrations:	Ingestion (LD50): 4300 mg/kg (rat)	Inhalation (LC50): 5000 ppm/4h	Skin (LD50): N/e
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Section 12: Ecological Information

General Information: Avoid runoff into storms and sewers, which lead into waterways. Water runoff can cause environmental damage.

Environmental Impact Data: (percentage by weight)

CFC: 0	HFC:	Cl.Solv: 0	VOC: 65	HCFC: 0	ODP: 0
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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 liters or less)

Consumer Commodity / ORM-D.

Air:

Shipper must be trained and certified. Refer to IATA regulations, UN# 1263, packing groups 3.

Sea:

Shipper must be trained and certified. Refer to IMDG regulations. Limited Quantity, UN# 1263, Paint.

Section 15: Regulatory Information

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.

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

This Product contains Ethyl Benzene CAS#100-41-4 (<6%) and Xylene CAS#1330-20-7(<45%) toxic chemicals subject to the reporting requirements.

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

This product contains Ethyl Benzene CAS#100-41-4 (<6%) and Xylene CAS#1330-20-7(<45%) chemicals subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

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.

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

This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.



Health Canada

Labeling and containers used in this product are listed in compliance with Consumer Chemicals and Container regulations.

Environment Canada

Chemicals in this product are listed on the Domestic Substances List in the Canadian Environmental Protection Act

This product does not contain any ozone depleting substances.

Industry and Science Canada

Labeling, product identity, net quantity declaration, minimum printing type size heights, and packaging of this product is in compliance with the Consumer Packaging and Labeling Act and Regulations. This product is not slack filled in accordance to chapter 4 prohibitions.

RoHS (The restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2004).

This product is RoHS compliant.

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.