Connector Coating

4229

A high performance replacement for standard electrical tape and shrink wrap. Seals, insulates and protects exposed wires, metal, and plastic. Forms a strong, pliable moisture resistant bond. Will not crack. Great for hard to get at areas. Tack free in minutes. Resists detergents, acids, alkalis, and sunlight. Product remains flexible from -34C° to 93°C (-30F° to 200°F).

Directions

Brush it on to almost any surface, or if applying to a component or tool, simply dip it into the coating and allow to dry. Additional coats may be applied after 20 minutes.

Specifications

Uncured Properties		
Chemical type		Naptha, rubber solvent
Appearance		Heavy liquid
Odor		Moderate
Viscosity		Flow similar to SAE 60 Motor oil
Cured Properties	**Test Method**	**Typical Value**
Tensile Strength	ASTM D 882	2600 psi
Dielectric Strength	ASTM D 149	300 v/mil
Hardness	ASTM D2240	65 to 75 Shore A
Elongation	ASTM D 638	400 to 500%

Available Sizes

Catalog Number	Sizes Available	Description
4229-55ML	55ml (2 oz)	Liquid
4229-1L	1 liter (35 oz)	Liquid
4229-4L	4 liter (1 gallon)	Liquid

Connector Coating 4229

Product Description

MG Chemicals' Connector Coating is a solvent based, modified thermoplastic liquid coating. Dries to a durable, flexible rubber-like protective coating.

Product Features

- Coats metal, foam, fiberglass, masonry, rubber, and wood.
- Available in black
- Remains flexible in and resists temperatures from –30 ºF to 200 ºF (–34 ºC to 93 ºC).
- Won't crack or chip
- Stands up to sun, salt spray and extreme weather
- Excellent chemical resistance

Application

Brushing: Brushing should be reserved for applications that can neither be dipped or sprayed.

1. Brush surface in one direction only.
2. Several coats are recommended for maximum protection. Allow 20 minutes between coats. Drying time (at 70 ºF) is approximately four hours for each coat applied.
3. Brush can be cleaned with MG Chemicals Cat No. 435
4. Once applied, Connector Coating does not have to be removed for additional coats. New coats will fuse to old coats during air drying.

Cleaning

Connector Coating may be wiped clean with MG Chemicals Cat No. 435 Solvent Cleaner.

Sample Application

- Insulating connecting wires
- Joining speaker wires
- Soldering joints
- Repairing wires
- Repairing extension cords
- Protecting screw heads from corrosion
- Coating battery connectors
- ANYWHERE YOU WOULD USE ELECTRICAL TAPE…..AND MORE

Properties Of Uncured Material

Chemical Type	Naphtha, rubber solvent
Appearance	Heavy liquid
Odor	Moderate
Viscosity	Flow similar to SAE 60 Motor Oil
Specific Gravity	.92 - .94
Flash Point, TCC, ºF (ºC)	<2 (<-17)

Properties Of Cured Material

Tensile Strength, ASTM D 882, psi	2600
Dielectric Strength, ASTM D 149, v/ml	300
Hardness, ASTM D 2240, Shore A	65 to 75
Elongation, ASTM D 638, %	400 to 500

Material Safety Data Sheet

Section 1: Product Identification

MSDS Code: 4229 Name: Connector Coating

Related Part Numbers: 4229-55ml, 4229-1L, 4229-4L

Use: Liquid Coating substitute for electrical tape. Coats wires, connectors etc.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH	OSHA	Other	LD 50	LC50
64742-89-8	Light Aliphatic Solvent Naphtha	30-60	N/E	N/E	N/E	>5gm/kg (Oral – rat)	N/E
110-54-3	N-Hexane	10-30	STEL 1000 ppm TWA 50 ppm TWA 500 ppm (skin)	TWA 1800 mg/m3 TWA 500 ppm	N/E	25 gm/Kg Oral Rat	169 gm/m3 Inhalation rat
1330-20-7	Xylene	10-30	TWA 100 ppm STEL 150 ppm	TWA 435 mg/m3 TWA 100 ppm	N/E	4300 mg/m3 Oral- rat	21.6 gm/m3 inhalation rat
67-64-1	Acetone	5-10	TWA 500 ppm STEL 75- ppm	TWA 1000 ppm TWA 2400mg/m3	N/E	5800 mg/m3 oral rat	50.1 gm/m3 Inhalation rat
100-41-4	Ethyl Benzene	1-5	TWA 100 ppm STEL 125 ppm	TWA 100 ppm TWA 435 mg/m3	N/E	3500 mg/m3 Oral rat	N/E
112945-52-5	Silica, amorphous, fumed, crystalline free	1-5	TWA 6 mg/m3	TWA 10 mg/m3	3 mg/m3 TWA respired dust	3160 mg/kg oral rat	N/E
1333-86-4	Carbon Black	0.1-1	TWA 3,5 mg/m3	TWA 3.5 mg/m3	N/E	15400 mg/kg Oral- Rat	N/E

Section 3: Hazards Identification

WHMIS Codes: B2, D2A, D2B

NFPA Ratings: Health 2 Flammability 3 Reactivity 1

HMIS Ratings: Health 2 Flammability 3 Reactivity 1

Eyes: Vapors may irritate eyes. Contact with eyes will cause irritation.

Skin: Contact may dry the skin; prolonged contact may cause moderate irritation.

Inhalation: May be harmful if inhaled. Vapors may cause headaches, nausea, dizziness and respiratory tract irritation. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous

system damage. Prolonged exposure to solvents may cause adverse effects to the liver, urinary, and reproductive systems.

Ingestion: May be harmful if swallowed.

Chronic: No effects known.

Section 4: First Aid Measure

Eyes: Immediately flush eyes with copious amounts of water or saline. Get medical attention if symptoms persist.

Skin: Remove contaminated clothing and shoes. Flush with copious amounts of water (using soap if available). Wash clothing before reuse. Get medical attention if symptoms develop and persist.

Inhalation: Remove to fresh air. Get medical attention if symptoms develop and persist.

Ingestion: Do not induce vomiting. Keep individual calm. Never give anything by mouth to an unconscious person. Get medical attention if symptoms develop and persist.

Section 5: Fire Fighting Measures

Autoignition Temperature: Not applicable **Flash Point:** - 23°C (-10°F) **LEL / UEL:** 1.0/ 12.8%

Extinguishing Media: Foam, dry chemical or carbon dioxide.

General Information: Do not store or use near heat, spark, flame, or other sources of ignition.

Section 6: Accidental Release Measures

Spill Procedure: No environmental precautions known. Remove all ignition sources, Ensure adequate ventilation. Soak up with inert absorbent. Prevent product from entering drains. Store in closed container until ready for disposal.

Section 7: Handling and Storage

Handling: Avoid contact with skin and eyes. Do no breathe mist or vapors. Keep away from heat, spark and flame.

Storage: For safe storage, store below 48°C (120 F). Keep in a cool, well-ventilated area. Keep away from heat, sparks, and flame.

Section 8: Exposure Controls

Routes of entry: Oral, Inhalation, Topical.

Ventilation: Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits. Use NIOSH approved respirator if there is potential to exceed exposure limits.

Personal Protection: Chemical resistant, impermeable, gloves. Safety goggles or glasses with side shields.

Section 9: Physical and Chemical Properties

Physical State:	Liquid	**Odor:**	Solvent	**Soluble:**	Insoluble in water	**Evaporation Rate:**	> 1 (Butyl acetate=1)		
Boiling Point:	56-141°C	**Specific Gravity:**	0.83	**Vapor Pressure:**	185 mm Hg @ 20 °C	**Vapor Density:**	> 1	**pH:**	**N/a**

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

This product contains Ethyl benzene (>5%) n-hexane (>30%), and Xylene (>30%) which are toxic 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 know to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

This product contains a chemical known to the State of California to cause cancer, birth defects or 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.