

Material Safety Data Sheet

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Section 1: Product Identification

MSDS Code: 8331 - Part A Name: Epoxy - Electrically Conductive Adhesive

Related Part Numbers: 8331-14G; 8331-454G

Use: Electrically conductive adhesive.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
28064-14-4	Reaction product of epichlorohydrin and bisphenol F	30 - 50	N/e	N/e	N/e
7440-22-4	Silver	50 - 70	0.01mg/m ³	0.01mg/m ³	N/e

Section 3: Hazards Identification

WHMIS Codes: B3, D2B

NFPA Ratings: Health 2 Flammability 1 Reactivity 0

HMIS Ratings: Health 2 Flammability 1 Reactivity 0

Eyes: Causes irritation.

Skin: Prolonged exposure may cause skin irritation. May cause allergic reaction in some individuals.

Inhalation: At room temperature, exposure to vapors is unlikely due to physical property of low volatility. Higher temperatures may generate vapor levels sufficient to cause irritation to the respiratory tract (nose, throat, and lungs).

Ingestion: Single dose oral toxicity is low. Amounts ingested incidental to industrial handling are not likely to cause injury; however, ingestion of large amounts may be harmful.

Chronic: Chronic inhalation or ingestion of silver salts may cause argyria characterized by a permanent blue-gray discoloration of the eyes, skin, mucous membranes, and internal organs. Inhalation and/or of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count

Section 4: First Aid Measure

Eyes: Remove contact lenses if worn. Flush with water or saline for 20 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Thoroughly wash skin with soap. Remove contaminated clothing and wash before reuse. Solvents should not be used to clean hands or skin because they increase the penetration of the material into the skin. Get medical aid if symptoms persist.

Inhalation: Immediately remove from exposure to fresh air. Get medical aid if symptoms persist.

Ingestion: Do not induce vomiting. If conscious, give 1-2 glasses of water. Get medical aid.



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: 0

Cl.Solv: 0

VOC: 0

HCFC: 0

ODP: 0

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:

Non-regulated

Air:

Non-regulated

Sea:

Non-regulated

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)

Silver CAS# 7440-22-4 50 – 70% is listed under section 313 as a toxic chemical.

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

This product contains Silver CAS# 7440-22-4 50 – 70% a chemical 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.

Section 15: Regulatory Information Cont.

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 does not contain any chemicals listed.

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.