


Material Safety Data Sheet



MSD152
Rev. A
Date: 10/16/12

 <p>This Data Sheet contains important information. READ AND KEEP FOR REFERENCE.</p> <p>INSTRUCTIONS</p>

1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Conductive Epoxy –Part A (Adhesive)

Emergency Information:

Health Emergency (RMPC): (303)– 623–5716

Manufacturer / Supplier:

Graco Inc.
P.O. Box 1441
60 11th Ave. NE
Minneapolis, MN 55440–1441

Chemical Spills (Chemtrec): (800)– 424–9300

Part Number(s): 070690

Use: Spray Gun Adhesive

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Company Address:

8125 Cobb Center Drive
Kennesaw, GA 30152

Product Information: 800-TECH-401
Customer Service: 800-645-5244

Emergency: (Chemtrec) 800-424-9300
Revision Date: August 30, 2010

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Wt. % Range
Silver (Metallic)	7440-22-4	60.0-90.0
Epoxy Resin	25068-38-6	10.0-25.0
Modified Epoxy Ester	68475-94-5	1.0-3.0

SECTION 3: HAZARDOUS IDENTIFICATION

Emergency Overview: Silver/gray paste with mild odor. This product is nonflammable. Liquid will irritate eyes and skin. Breathing high concentrations may produce headaches and dizziness.

Potential Health Effects:

Eyes: Liquid and vapors of this product may cause eye injury which may persist for several days.

Skin: Contact may cause skin injury (reddening and swelling). Sensitizer - may cause allergic skin reaction.

Ingestion: Harmful if swallowed. Silver ingestion may result in generalized argyria.

Inhalation: No specific information available. Heating can generate vapors that could cause headaches, nausea, dizziness and respiratory irritation if inhaled.

Pre-Existing Medical Conditions Aggravated by Exposure: Heart, lung, eye, skin

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush with large amounts of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined by a Physician.

Skin: Remove contaminated clothing and wash skin with soap and water. Get medical attention if irritation develops persists. Wash clothes separately before reuse.

Ingestion: If appreciable quantities are swallowed, seek medical attention.

Inhalation: In case of exposure to high concentrations of vapor or mist, remove to fresh air. If breathing is difficult, give oxygen and call a Physician. If breathing has stopped, apply artificial respiration and call a Physician.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: > 200°F (>93C) (Setaflash)

LEL/UEL: NA (% by volume in air)

Extinguishing Media: Use carbon dioxide or dry chemicals for small fires, aqueous foam or water for large fires involving this material.

Fire Fighting Instructions: Remove all ignition sources. As in any fire, wear self-contained breathing apparatus (pressure demand, OSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Large Spills: Remove all sources of ignition (sparks, open flames, etc.). Wear self-contained breathing apparatus and appropriate personal protective equipment. Ventilate area and contain spill by diking and/or absorbing with inert material. Collect spill by scooping up liquids and absorbent material and place in a chemical waste container for proper disposal. Do not flush to sewer. Prevent material from entering storm sewers, ditches that lead to waterways and ground.

Small Spills: Absorb spill with absorbent material, then place in a chemical waste container for proper disposal.

SECTION 7: HANDLING AND STORAGE

Avoid prolonged or repeated contact with skin, eyes or clothing. Wash hands before eating. Use with adequate ventilation. Avoid breathing product vapor. Do not reuse this container. Store in a cool dry place, away from heat, sparks or flames.

KEEP OUT OF REACH OF CHILDREN.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Guidelines:

CHEMICAL NAME	ACGIH TLV	OSHA PEL	ACGIH STEL
Silver	0.1 mg/m ³	0.01mg/m ³	NA
Epoxy Resin	NA	NA	NA
Modified Epoxy Ester	NA	NA	NA

Work/Hygienic Practices: Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Wear safety glasses with side shields or goggles and rubber or other chemically resistant gloves when handling this material.

<u>NFPA and HMIS Codes:</u>	NFPA	HMIS
Health	3	3
Flammability	1	1
Reactivity	1	1
Personal Protection	–	B

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Silver/gray Paste

Odor: Mild

pH: NA

Vapor Pressure: <0.10 mmHg @ 20°C

Vapor Density: NA

Percent Volatile: < 0.5%

Solubility in Water: <10%

Specific Gravity: 4.0

Evaporation Rate: <1

(Butyl acetate=1)

Boiling Range: >200°F (>93C)

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Storage above 120°F, exposure to light, loss of dissolved air, loss of polymerization, inhibitor, contamination with incompatible materials.

Incompatibility: Avoid strong oxidizing agents, copper, copper alloys, carbon steel, iron and rust. Avoid strong acids and bases. Also avoid caustics, amines, alkalis and mercaptans.

Products of Decomposition: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: May occur.

Conditions to avoid: Polymerization initiators including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust or strong bases. Contamination with strong acids, amines or mercaptans can cause polymerization

SECTION 11: TOXICOLOGICAL INFORMATION

LD50

LD50

LC50 (ppm)

Ingredients	(rat) Oral	(rbt) Dermal	(rat) Inhalation
Silver (metallic)	NA	NA	NA
Epoxy Resin	>10,000 mg/kg	>20,000 mg/kg	NA
Modified Epoxy Ester	NA	NA	NA
Cancer Information: No ingredients listed as human carcinogens by NTP or IARC			
Reproductive effects: none		Teratogenic effects: none	Mutagenic effects: none

SECTION 12: ECOLOGICAL INFORMATION

Environmental Impact Information

Avoid runoff into storm sewers and ditches which lead to waterways. Water runoff can cause environmental damage.

REPORTING

US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is: **1-800-424-8802**

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORTATION INFORMATION

Air and Ground Shipments:

Adhesives, sealants

Not Regulated

SECTION 15: REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION

This product contains the following chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To- Know Act of 1986 (40 CFR 372).

Silver	CAS # 7440-22-4	60.0-90.0%
--------	-----------------	------------

This information should be included on all MSDSs copied and distributed for this material.

TOXIC SUBSTANCES CONTROL ACT (TSCA).

All ingredients of this product are listed on the TSCA Inventory.

WHMIS: Class D2B

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

SECTION 16: OTHER INFORMATION

Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released.

NOTE: To obtain maximum shelf life, product must be stored below 77F / 25C.

Prepared By	Graco, Inc.
--------------------	-------------

This Material Safety Data Sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we have received from sources outside our company. We believe that information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this Data Sheet may not be adequate for all individuals and/or situations. It is the users' obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.

NOTES: NA = Not Applicable; NE = Not Established; UN = Unavailable

All written and visual data contained in this document reflects the latest product information available at the time of publication.

Graco reserves the right to make changes at any time without notice.

Headquarters: Minneapolis

International Offices: Belgium, Korea, Hong Kong, Japan

GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441

www.graco.com

PRINTED IN U.S.A.