



TEMCO

## MATERIAL SAFETY DATA SHEET

## HAZARD IDENTITY

DATE 2/5/08 REV COMMSBC MDS NUMBER COMMSBC COMPILED BY L. Meeder APPROVED BY Co. Safety

HEALTH 1	FLAMMABILITY 0
0	0
CONTACT	REACTIVITY

## PRODUCT IDENTIFICATION

COMMUTATOR (Silver Bearing Copper) \_\_\_\_\_

Director

## SECTION I

MANUFACTURER'S NAME: The Electric Materials Company EMERGENCY PHONE #: 814-725-9621  
 STREET ADDRESS: 50 South Washington Street  
 CITY, STATE, & ZIP: North East, PA 16428 INFORMATION PHONE #: 814-725-9621

## SECTION II - HAZARDOUS INGREDIENTS

Chemical Name	Ingredients		Percent Weight	PEL Occupational Exposure Limits	ACGIH
	Common Name	CAS #			
* Cu	Copper	7440-50-8	N/A	1 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> (fume)	1 mg/m <sup>3</sup>
Fe	Iron	1309-37-1	N/A	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
	Mica	12001-26-2	N/A	3 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>
* Ag	Silver	7440-22-4	N/A	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
	Clay, Sand	1332-58-7	N/A	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
	Binders	1334-09-8	N/A	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

## SECTION III - PHYSICAL DATA

MELTING RANGE: N/A ° F VAPOR DENSITY: N/A  
 EVAPORATION RATE: N/A PERCENT VOLATILE BY VOLUME: N/A  
 SOLUBLE IN WATER:  Yes  No SPECIFIC GRAVITY:

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMIBILITY CLASSIFICATION: OSHA: N/A DOT: N/A  
 FLASH POINT: N/A ° F ° C LEL: N/A UN: N/A

## EXTINGUISHING MEDIA:

Foam  Alcohol Foam  CO<sub>2</sub>  Dry Chemical  Water Fog  Other

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

DECOMPOSITION OF PRODUCTS: Epoxy and varnish materials may give off CO<sub>2</sub>, CO, phosgene gas, and a thick acid, irritating smoke.

SPECIAL FIRE FIGHTING PROCEDURES: None, but life support equipment is recommended.



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**SECTION V - HEALTH HAZARD DATA**

## EFFECTS OF OVEREXPOSURE

**Acute (Short term):** Metal dust may be irritating to the skin, eyes, and upper respiratory tract. Molten fumes from the metal may cause fume fever, with flu-like symptoms, metallic taste in the mouth, and nausea.

**Chronic (Long term):** Metal fume fever and siderosis.

**Medical Conditions Prone to Aggravation by Exposure:** Allergies or respiratory conditions may be aggravated.

**Primary Routes of Entry:**  Dermal  Inhalation  Ingestion

**Emergency and First Aid Procedures:** SKIN - wash with soap and water. If reddening or irritation occurs, victim should seek immediate medical attention, INHALATION - remove patient to fresh air, in all cases have individual checked by a physician.

**SECTION VI - REACTIVITY DATA**

STABILITY:  Unstable  Stable HAZARDOUR POLYMERIZATON:  May Occur  Will Not Occur

CONDITIONS TO AVOID: N/A

INCOMPATIBILITY (MATERIALS TO AVOID): The metal is not compatible with strong organic oxidizers or acetylene.

**SECTION VII - SPILL OR LEAK PROCEDURES**

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Pick up or sweep up and store in a secure container.

WASTE DISPOSAL METHOD: Metals should be recycled. Check with federal, state, and local regulations for other waste streams.

**SECTION VIII - SAFE HANDLING & USE PROCEDURES**

RESPIRATORY PROTECTION: Depending on the physical state of the material (dust or fume), use respiratory protection as recommended by 29 CFR 1910.134, or applicable State regulations.

VENTILATION: Local exhaust is recommended for very dusty conditions.

PROTECTIVE GLOVES: Leather or cotton.

EYE PROTECTION: Safety Glasses or goggles.

OTHER PROTECTIVE EQUIPMENT: N/A

HYGEINIC PRACTICES: Use good personal hygiene when handling material.

**SECTION IX - SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING: N/A

OTHER PROCAUTIONS: Materials are not listed as human carcinogens.