

ID: C95500

DATE ISSUED: **5/22/2015** 

SECTION 1 – PRODUCT IDENTIFICATION & COMPANY INFORMATION				
PRODUCT NAME:	ALUMINUM BRONZE COPPER C	ASTINGS		
OTHER DESIGNATIONS:	C95200 C95300 C9540	00 C9550	00	C95600
PRODUCT IDENTIFICATION:	N/A			
MANUFACTURER'S INFORMATION:	THE ELECTRIC MATERIALS COMI 50 SOUTH WASHINGTON STREE NORTH EAST, PA 16428			
EMERGENCY PHONE NO.:	814-725-9621	WEBSITE:	www	V.ELECMAT.COM
RECOMMENDED USE AND RESTRICTIONS ON USE:				

Solid Casting; no restrictions

SECTION 2 – HAZARD IDENTIFICATION		
CLASSIFICATION:	Castings are metallic articles that do not present hazards in their original form.	
OTHER INFORMATION:	<ol> <li>Grinding castings that have not been cleaned or that contain embedded sand may generate significant amounts of dust containing crystalline silica.</li> <li>Fumes from hot processes may contain other compounds with different exposure limits. Dust or fumes generated by machining, grinding, welding or thermal cutting of the casting may produce airborne contaminants. Consult Sections 3 &amp; 8 for further information.</li> </ol>	
SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS		

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CHEMICAL NAME	COMMON NAME	CAS#	PERCENT WEIGHT		
Cu	Copper	7440-50-8	78.0%		
Ni	Nickel	7440-02-0	5.5%		
Al	Aluminum	7429-90-5	11.5%		
Fe	Iron	1309-37-1	5%		
Mn	Manganese	7439-96-5	3.5%		
	CECTION 4 FIRST AIR AFAS				

SECTION 4 – FIRST AID MEASURES					
EYE CONTACT: Not applicable to solid castings					
SKIN CONTACT:	No special requirements for solid castings				

INGESTION:	Not applicable				
INHALATION:	Not applicable				
SECTION 5 – FIREFIGHTING MEASURES					
FLAMMABLE PROPERTIES: Not applicable					
	HING MEDIA:		applicable		
PROTECTION OF FI	PROTECTION OF FIREFIGHTERS:   Not applicable  SECTION 6 – ACCIDENTAL RELEASE MEASURES				
Not applicable					
	SEC	TION	7 – HANDLING AND STORAGE		
RECOMMENDE	ED STORAGE:	No s	pecial requirements		
PROCEDURES FOR	R HANDLING:	Prop	er hand and foot protection is recommende	d	
	SECTION 8 – E	XPOS	SURE CONTROLS/PERSONAL PROTECTION		
ENGINEERING CONTROLS:	None Requir	ed. 1	There are no health hazards from castings in	solid form.	
SUBSTANC	`F		ACGIH TLV	OSHA PEL	
	, <b>L</b>		mg/m³	mg/m³	
Cu			1	1 (dust)	
Ni			0.2	0.2 (fume) 1	
Al			10	10 (dust)	
Fe			5	5 (resp)	
Mn			5	5 (dust)	
CLIDDI ENACNITAL INICODANAT	ION.		SUDDI FRAFRITAL INFORMATION	1 (fume)	
SUPPLEMENTAL INFORMATION Grinding castings that have not been cleaned		Fumes from hot processes may contain			
or that contain embedded sa significant amounts of dust of		ate	other compounds with different exposure limits than those listed herein:		
crystalline silica.	correaming		Dust or fumes generated by machining,		
•			grinding, welding or thermal cutting of		
			the casting may produce airborne		
			contaminants. Exposure limits for the		
			most common contaminants are offered as reference. Please consult a		
			competent person for guidance on		
			exposure assessment and controls.		
TERMS: ALL EXPOSURE LIM OTHERWISE NOTED.	ITS REFERENCE	D HE	REIN ARE 8 HOUR TIMEWEIGHTED AVERAGE	S (TWA) UNLESS	
TLV = THRESHOLD LIMIT VAI mg/m <sup>3</sup> = MILLIGRAMS PER C		I CON	NFERENCE OF GOVERNMENTAL INDUSTRIAL	HYGIENISTS (ACGIH)	
PERSONAL PROTECTION:	PERSONAL PROTECTION: Proper hand and foot protection is recommended				
SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES					
APPEARANCE/PHYSICAL STA	TE:				
Solid, Yellowish in color ODOR/ODOR THRESHOLD:			VAPOR DENSITY:		
None					
			аррисами		

MELTING/FREEZING POINT:	SPECIFIC GRAVITY: (relative density)
Approximately 1085°C (1984°F) for copper	7.53 g/cm <sup>3</sup> for copper (water = 1)
BOILING POINT:	VAPOR PRESSURE:
2562°C (4644°F) for copper	Not applicable
FLASH POINT:	EVAPORATION RATE:
Not applicable for solid castings	Not applicable
FLAMMABILITY:	SOLUBILITY IN WATER:
Not flammable for castings in solid form	Insoluble
UPPER & LOWER FLAMMABILITY LIMITS:	pH:
Not applicable for castings in solid form	Not applicable
AUTO IGNITION TEMPERATURE:	VISCOSITY:
Not applicable	Not applicable
DECOMPOSITION TEMPERATURE:	PARTITION COEFFICIENT:
Not applicable	Not applicable

SECTION 10 – STABILITY & REACTIVITY					
CHEMICAL STABILITY:					
Castings in solid form are stal	ble				
CONDITIONS TO AVOID:					
None					
REACTIVITY:			INCO	INCOMPATIBLE MATERIALS:	
Not reactive			None	è	
WATARRAUG RECOMPROSITIO	N. DD OD LIGTS			200011600	VA AFRITATION
HAZARDOUS DECOMPOSITIO	N PRODUCIS:			HAZARDOUS POLYMERIZATION:	
None			Not a	Not applicable	
	SECTION 11 -	TOXICOLOGICAL	INFORMAT	ION	
POTENTIAL HEALTH EFFECTS					
EYE CONTACT:	None				
SKIN:	None				
INGESTION:	None				
INHALATION:	None				
Carcinogen Classification of Ingredients					
Ingredient OSHA NTP IARC Targ			Target Organ		
None					

# **TERMS:**

- OSHA Occupational Safety & Health Administration
  - Y = Listed as a human carcinogen
- NTP National Toxicology Program
  - K = Known to be a human carcinogen
  - R = Reasonably anticipated to be a human carcinogen (RAHC)
- IARC International Agency for Research on Cancer
  - 1 = Carcinogenic to humans
  - 2A = Probably carcinogenic to humans
  - 2B = Possibly carcinogenic to humans
  - 3 = Unclassifiable as to carcinogenicity to humans
  - 4 = Probably not carcinogenic to humans

Other -

NL = Not listed

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SECTION 12 – ECOLOGICAL INFORMATION			
ECOTOXICITY	PERSISTENCE AND DEGRADABILITY		
Not applicable	Not applicable		
BIOACCUMULATION POTENTIAL	MOBILITY IN SOIL		
Not applicable	Not applicable		
OTHER ADVERSE EFFECTS			

OTHER ADVERSE EFFECTS

Not applicable

# **SECTION 13 – DISPOSAL CONSIDERATIONS**

Recover or Recycle if possible. Dispose of according to Federal, State and Local Regulations. Dust collected from machining, welding, etc. may be classified as a hazardous waste. Consult Federal, State and Local regulations.

SECTION 14 – TRANSPORT INFORMATION				
US DEPT OF TRANSPORTATION	CANADIAN TRANSPORTATION OF			
(DOT)-HMR (Hazardous Materials Registration)	DANGEROUS GOODS (TDG)			
Not regulated	Not regulated			
UN SHIPPING NAME	UN NUMBER			
Not regulated	Not regulated			
TRANSPORT HAZARD CLASS	PACKING GROUP			
Not regulated	Not regulated			
ENVIRONMENTAL HAZARDS	LABEL(S) REQUIRED?			
None	No			
TRANSPORT IN BULK	SPECIAL SHIPPING INFORMATION			
Not applicable	Not applicable			

# **SECTION 15 - REGULATORY INFORMATION**

US-OSHA (HAZARD COMMUNICATION STANDARD)

References: 29 CFR 1910.1200

A finished casting is an article as defined in the OSHA Hazard Communication Standard

29 CFR 1910.1200 (c)

29 CFR 1910.1000 Air Contaminants

Dust or fumes generated by cleaning, machining, grinding, or welding of the casting may produce airborne contaminants, such as copper and silica.

US-EPA (TOXIC SUBSTANCES CONTROL ACT - TSCA)

All components of these products are on the TSCA inventory list or are excluded from listing.

**US-EPA (SARA TITLE III)** 

Releases to the environment of **Copper** may be subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CANADA-WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM)

This SDS has been prepared according to the hazard criteria of the Controlled Product Regulations (CPR) and the SDS contains the information required by the CPR.

CANADA DSL (DOMESTIC SUSTANCES LIST) INVENTORY STATUS

All components of these products are on the DSL Inventory.

CEPA (CANDIAN ENVIRONMENTAL PROTECTION ACT)

No components are on the Toxic Substances List.

EINECS NO. (EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES)

All components of these products are on the EINECS list.

RoHS (RESTRICTION OF CERTAIN HAZARDOUS SUBSTANCES) COMPLIANCE

Castings comply with RoHS.

CALIFORNIA PROPOSITION 65 COMPLIANCE

Copper is not on California's Proposition 65 list. (California Health & Safety Code 25248.5 et seq.)

US STATE REGULATORY INFORMATION

Some of the components listed I Section 3 (e.g., Copper) may be covered under specific state regulations.

# **SECTION 16 – OTHER INFORMATION**

### **SDS PREPARED BY**

The information herein is given in good faith and based on technical date The Electric Materials Company believes to be reliable. Since the conditions of use are outside our control, we assume no liability in connection with any use of this information and no warranty, expressed or implied is given. Contact the Electric Materials Company or its associates for additional information.

DATE 05/2015

# NOTE:

This data and label information is offered in good faith as typical values and not as a product specification. No warranty either expressed or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally acceptable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.

LABEL Information:

We have no current labels for C95500.