

OTHER INFORMATION:

EYE CONTACT:

SKIN CONTACT:

# **SAFETY DATA SHEET (SDS)**

ID: **C95200** 

DATE ISSUED:

2. Fumes from hot processes may contain other compounds with different exposure limits. Dust or fumes generated by machining, grinding,

5/22/2015

SECTION 1 – PRODUCT IDENTIFICATION & COMPANY INFORMATION				
PRODUCT NAM	ALUMINUM BRONZE COPPER CASTINGS			
OTHER DESIGNATION	C95200 C95300 C95400 C95500 C95600			
PRODUCT IDENTIFICATION	N: N/A			
MANUFACTURER'S INFORMATION:  THE ELECTRIC MATERIALS COMPANY  50 SOUTH WASHINGTON STREET  NORTH EAST, PA 16428				
EMERGENCY PHONE NO.: <b>814-725-9621</b> WEBSITE: WWW.ELECMAT.COM				
RECOMMENDED USE AND RESTRICTIONS ON USE: Solid Casting; no restrictions				
SECTION 2 – HAZARD IDENTIFICATION				
CLASSIFICATION:	astings are metallic articles that do not present hazards in their original form.			
	Grinding castings that have not been cleaned or that contain embedded sand may generate significant amounts of dust containing crystalline silica.			

welding or thermal cutting of the casting may produce airborne
contaminants. Consult Sections 3 & 8 for further information.

Not applicable to solid castings

No special requirements for solid castings

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS					
CHEMICAL NAME	COMMON NAME	CAS#	PERCENT WEIGHT		
Cu	Copper	7440-50-8	86.0%		
Al	Aluminum	7429-90-5	9.5%		
Fe	Iron	1309-37-1	4%		
SECTION 4 – FIRST AID MEASURES					

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INGESTION:	Not applicable				
INHALATION:	Not applicable				
SECTION 5 – FIREFIGHTING MEASURES					
	FLAMMABLE PROPERTIES: Not applicable				
	-		applicable		
PROTECTION OF FIREFIGHTERS: Not applicable  SECTION 6 – ACCIDENTAL RELEASE MEASURES					
Not applicable					
			7 – HANDLING AND STORAGE		
RECOMMENDE			pecial requirements		
PROCEDURES FOR			er hand and foot protection is recommende	ed	
	SECTION 8 – EX	KPOS	URE CONTROLS/PERSONAL PROTECTION		
ENGINEERING CONTROLS:	None Require	ed. T	here are no health hazards from castings in	solid form.	
SUBSTANC	E		ACGIH TLV	OSHA PEL	
Cu			mg/m³	mg/m³ 1 (dust)	
Cu			0.2	0.2 (fume)	
Al			10	10 (dust)	
Fe			5	5 (resp)	
SUPPLEMENTAL INFORMAT			SUPPLEMENTAL INFORMATION		
Grinding castings that have ror that contain embedded sa			Fumes from hot processes may contain other compounds with different		
significant amounts of dust of		מנכ	exposure limits than those listed herein:		
crystalline silica.			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	TS REFERENCE	D HE	REIN ARE 8 HOUR TIMEWEIGHTED AVERAG	FS (Τ\MΔ) LINI FSS	
OTHERWISE NOTED.	TO KEI EKEIVEE	J 11121	NEW YORK THE WEIGHTED AVEING	LS (TWAN) ONLLSS	
TLV = THRESHOLD LIMIT VAL	.UE/AMERICAN	CON	FERENCE OF GOVERNMENTAL INDUSTRIAL	. HYGIENISTS (ACGIH)	
mg/m³ = MILLIGRAMS PER CUBIC METER					
PERSONAL PROTECTION:	PERSONAL PROTECTION: Proper hand and foot protection is recommended				
SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES					
APPEARANCE/PHYSICAL STA					
Solid, Yellowish in color					
ODOR/ODOR THRESHOLD:			VAPOR DENSITY:		
None			Not applicable		
MELTING/FREEZING POINT:			SPECIFIC GRAVITY: (relative de	 nsity)	

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:			INCC	INCOMPATIBLE MATERIALS:	
Not reactive			None	e	
HAZARDOUS DECOMPOSITION PRODUCTS: None				HAZARDOUS POLYMERIZATION: 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 Target Organ					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

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

## **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

Not applicable

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	DATE			
The information herein is given in good faith and based on technical	05/2015			
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.				

## 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 C95200.