

SAFETY DATA SHEET (SDS)

ID: **C87610BRHA**

		A UNITED STARS CO.				
			DATE ISSU	ED: 5/2	4/2015	
SEC	TION 1 -	PRODUCT IDENTIFICATION & COM	IPANY INFOR	MATION		
PRODU	CT NAME	: C87610 BRASS HAMMER ALLOY	C87610 BRASS HAMMER ALLOY			
OTHER DESIG	NATIONS	i:				
PRODUCT IDENTIF	ICATION	: N/A	N/A			
MANUFACTURER'S INFORMATION:		THE ELECTRIC MATERIALS COMPANY 50 SOUTH WASHINGTON STREET NORTH EAST, PA 16428				
EMERGENCY PH	ONE NO.	: 814-725-9621	WEBSITE:	WWW.E	LECMAT.COM	
RECOMMENDED USE AND R Various Castings and Termin		ONS ON USE:				
		SECTION 2 – HAZARD IDENTIFIC	ATION			
CLASSIFICA	7 1() / .	ndustrial Copper Castings are metallic articles that do not present hazards in heir original form.				
OTHER INFORMATION: Fu		Grinding castings that have not bee may generate significant amounts of the form that processes may con exposure limits. Dust or fumes gen thermal cutting of the casting may processed as \$ 8 for further informations and the formation of the casting may processed as \$ 8 for further informations and the formation of the casting may processed as \$ 8 for further informations are calculated as \$ 8 for f	of dust contain tain other con erated by ma produce airbo	ning cryst mpounds chining, g	alline silica. with different rinding, welding or	
		3 – COMPOSITION/INFORMATION		ENTS		
CHEMICAL NAME		COMMON NAME	CAS	#	PERCENT WEIGHT	
Cu Si Zn		Copper Silicon Zinc Wood	7440-50-8 7440-21-3 1314-13-2		83% 3-4% 3-4% 10%	
	ı	SECTION 4 – FIRST AID MEASU				
EYE CONTACT:	Eye injuries from solid particles should receive immediate medical attention. Dust may be flushed from eyes immediately with large amounts of water, lifting the lower and upper lids occasionally; seek medical attention.					
SKIN CONTACT:	Cuts or abrasions should be treated promptly with thorough cleansing of the affected area. Wash the skin using soap or mild detergent and water. Get medical attention if irritation develops and persists.					
INGESTION:	N: If the product or dust is swallowed, seek immediate medical attention or advice. Do not induce vomiting.					

INHALATION:	If breathing has stopped, perform artificial respiration and obtain medical aid immediately. If breathing is difficult, provide fresh air and seek medical attention as soon as possible.				
			I 5 – FIREFIGHTING MEASURES		
FLAMMABLE			applicable		
EXTINGUISI	HING MEDIA:		applicable; non-combustible		
			a dust fire in a confined area, use a respirator approved for toxic dusts		
DDOTECTION OF FL	DEFICUTEDS		d fumes. Do not use water to extinguish fires around operations		
PROTECTION OF FI			olving molten metal due to the potential for steam explosions.		
	SECTIO	- ט אוי	ACCIDENTAL RELEASE MEASURES		
Clean-Up Procedures: Product in solid form may be picked up by hand or other means to be placed into a container. When cleaning dust, use methods that minimize the dispersion of dust such as a high efficiency particulate air (HEPA) vacuum, wet dust mop, or wet clean-up. Put recovered material in a suitable, covered, and labeled container.					
	SEC	CTION	7 – HANDLING AND STORAGE		
RECOMMENDE	D STORAGE:		ntain good housekeeping to prevent exposu		
NECONIVIENDE			nicals that may contaminate or impair the c		
			product does not require special safety pre	_	
		•	rior to installation. Installation and removal of the product may cause		
PROCEDURES FOR	R HANDLING:	•	xposure to dusts and other materials or chemicals associated with the		
			stallation (work) environment. Operations such as grinding, cutting, urning, and welding may generate dusts or fumes which may require		
			ial handling procedures.	nes winch may require	
	SECTION 8 – E		SURE CONTROLS/PERSONAL PROTECTION		
			heating, or melting, use adequate local (pr	eferably) or general	
		•	on to ensure that concentrations of dusts or	•	
ENGINEERING CONTROLS:	exposure lin	nits. H	Keep workplace clean and dry (unless wet n	nachining is being used to	
ENGINEERING CONTROLS.		st and fume). Train personnel to minimize exposure to hazards during			
		and replacement of product. On a regular basis, verify condition and proper			
function of equipment in which the product will be installed.					
SUBSTANCE		ACGIH TLV	OSHA PEL		
			mg/m³	mg/m³	
Cu		0.2	1 (dust) 0.2 (fume)		
Zn		0.2 5	5 0.2 (fullie)		
Si		10	10		
Wood		1	1		
SUPPLEMENTAL INFORMATION		SUPPLEMENTAL INFORMATION	SUPPLEMENTAL		
Individual protection measures: Use		Individual protection measures: Use an	INFORMATION		
appropriate gloves to protect against physical			approved respirator, with the proper	Individual protection:	
hazards. Always wear safety glasses with side			assigned protection factor, whenever	Workers should was	
shields and appropriate hearing protection			airborne concentrations of hazardous	before meals and leaving	
when grinding or cutting.			components exceed exposure limits	work.	
			listed above.		

TERMS: ALL EXPOSURE LIMITS REFERENCED HEREIN ARE 8 HOUR TIMEWEIGHTED AVERAGES (TWA) UNLESS OTHERWISE NOTED.

TLV = THRESHOLD LIMIT VALUE/AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH) mg/m³ = MILLIGRAMS PER CUBIC METER

PERSONAL PROTECTION:

Proper hand and foot protection is recommended

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES					
APPEARANCE/PHYSICAL STATE:					
Metallic solid with a copper color					
ODOR/ODOR THRESHOLD:	VAPOR DENSITY:				
None	Not volatile				
MELTING/FREEZING POINT:	SPECIFIC GRAVITY: (relative density)				
Approximately 1083°C (1980°F) for copper	8.9 g/cm ³ (0.32 lb./in ³) for copper (water = 1)				
BOILING POINT:	VAPOR PRESSURE:				
2500°C (4530°F) for copper	~ 0 mm/Hg				
FLASH POINT:	EVAPORATION RATE:				
Not determined	Not volatile				
FLAMMABILITY:	SOLUBILITY IN WATER:				
Not flammable	Insoluble				
UPPER & LOWER FLAMMABILITY LIMITS:	pH:				
Not applicable	Not applicable				
AUTO IGNITION TEMPERATURE:	VISCOSITY:				
Not applicable	Not applicable				
DECOMPOSITION TEMPERATURE:	PARTITION COEFFICIENT:				
Not applicable Not applicable					

SECTION 10 – STABILITY & REACTIVITY				
CHEMICAL STABILITY:				
Stable under normal use conditions				
CONDITIONS TO AVOID:				
Temperatures > 150° C (300° F), which may soften the copper material.				
REACTIVITY:	INCOMPATIBLE MATERIALS:			
Copper may react with acetylene gas to form copper acetylides, which	Dust is explosively incompatible with			
are sensitive to shock. Copper may react with strong acids to generate	sodium azide.			
explosive gas (e.g. hydrogen).				
HAZARDOUS DECOMPOSITION PRODUCTS:	HAZARDOUS POLYMERIZATION:			
None	The melting of this product may release			
	metal oxides.			
SECTION 11 – TOXICOLOGICAL INFORMATION				

POTENTIAL HEALTH EFFECTS: Symptoms related to the physical, chemical and toxicological characteristics Under normal handling and use, exposure to product presents few health hazards. Dusts may cause mechanical irritations to eyes and skin. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. Higher dust exposures may cause difficulty breathing, congestion, and chest tightness.

EYE CONTACT:

If present as dust, copper may cause irritation, discoloration, and damage. As a foreign body in the lens, copper dust may cause a dense cataract and discolor the lens.

SKIN:	Copper can cause some irritation with possible discoloration of skin.				
	Ingestion of significant amounts of welding electrodes is unlikely. If copper is				
INGESTION:	swallowed and person is conscious, give large quantities of water to drink. Get medical				
	attention as soon as possible. Serious effects may occur if large amounts of dust are swallowed.				
	Breathing metal dust may worsen symptoms of individuals with pre-existing chronic				
	respiratory disease. Follow exposure guidelines for copper dust and fume. Acute				
INHALATION:	on product of the control of the con				
	mouth, nausea, fatigue, and/or metal fume fever. Breathing copper dust may worsen				
	symptoms of individuals with pre-existing chronic respiratory disease.				
Carcinogen Classification of Ingredients					
Ingredient		OSHA	NTP	IARC	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

Copper metal is relatively insoluble in water and, therefore, generally has low bioavailability. This product is not expected to present an environmental hazard. Avoid releasing dusts and fumes into the environment.

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	DATE			
The information herein is given in good faith and based on technical	05/2015			
data 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 C87610BRHA.