

# **SAFETY DATA SHEET (SDS)**

ID: **C36000** 

		A United Stars Co.		ID:	C36000
			DATE ISSU	JED:	5/29/2015
SEC	TION 1 -	- PRODUCT IDENTIFICATION & COM	IPANY INFOR	RMAT	ION
PRODUCT NAME:		E: C36000 FREE CUTTING BRASS			
OTHER DESIGNATIONS:		S:			
PRODUCT IDENTIFICATION:		N: N/A	N/A		
MANUFACTURER'S INFORMATION:		THE ELECTRIC MATERIALS COMPANY 50 SOUTH WASHINGTON STREET NORTH EAST, PA 16428			
EMERGENCY PH	ONE NO	o.: <b>814-725-9621</b>	WEBSITE:	ww	W.ELECMAT.COM
RECOMMENDED USE AND RESTRICTIONS ON USE: Various Castings and Terminals					
		SECTION 2 – HAZARD IDENTIFIC	ATION		
CLASSIFICATION: Industrial Copper Castings are metallic articles that do not protein their original form.			not present hazards in		
OTHER INFORM <i>A</i>	ATION:	Grinding castings that have not been may generate significant amounts of the second se	of dust contain tain other co erated by ma produce airbo	ining o mpoo achini	crystalline silica. unds with different ng, grinding, welding or
:	SECTION	3 – COMPOSITION/INFORMATION		IENTS	
CHEMICAL NAME		COMMON NAME	CAS	S #	PERCENT WEIGHT
Cu Zn Pb		Copper Zinc Lead	7440-50-8 1314-13-2 7439-92-1		61.5% 35.25% 3.25%
		SECTION 4 – FIRST AID MEASU	JRES		
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:	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.					
	30011 43 \$6331816.					
	SECTION 5 – FIREFIGHTING MEASURES					
FLAMMABLE I	PROPERTIES:	Not a	applicable			
EXTINGUISH	IING MEDIA:	Not a	applicable; non-combustible			
			r a dust fire in a confined area, use a respirator approved for toxic dusts			
			d fumes. Do not use water to extinguish fires around operations			
PROTECTION OF FII			olving molten metal due to the potential for steam explosions.  — ACCIDENTAL RELEASE MEASURES			
	SECTIO	N O -	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	TION	7 – HANDLING AND STORAGE			
RECOMMENDE	D STOPAGE:	Mair	ntain good housekeeping to prevent exposu	ire to materials and		
RECOMMENDE			nicals that may contaminate or impair the c			
			product does not require special safety pre	_		
			or to installation. Installation and removal of the product may cause osure to dusts and other materials or chemicals associated with the			
PROCEDURES FOR	· Η ΔΙΝΙΙ ΙΙ ΙΙΝΙ(¬' Ι		stallation (work) environment. Operations such as grinding, cutting,			
			ing, and welding may generate dusts or fun			
special handling procedures.						
			SURE CONTROLS/PERSONAL PROTECTION			
When machining, heating, or melting, use adequate local (preferably) or general						
	exhaust ventilation to ensure that concentrations of dusts or fumes do not exceed exposure limits. Keep workplace clean and dry (unless wet machining is being use					
ENGINEERING CONTROLS:			fume). Train personnel to minimize exposu			
			eplacement of product. On a regular basis,			
function of equipment in which the product will be installed.						
SUBSTANCE			ACGIH TLV	OSHA PEL		
	<u>-</u>		mg/m³	mg/m³		
Cu			1	1 (dust)		
7.0			0.2 5	0.2 (fume) 5		
Zn Pb		0.15	0.05			
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		de	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 listed above.	work.		
			nated 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/m<sup>3</sup> = 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					
VAPOR DENSITY:					
Not volatile					
SPECIFIC GRAVITY: (relative density)					
8.9 g/cm $^{3}$ (0.32 lb./in $^{3}$ ) for copper (water = 1)					
VAPOR PRESSURE:					
~ 0 mm/Hg					
EVAPORATION RATE:					
Not volatile					
SOLUBILITY IN WATER:					
Insoluble					
pH:					
Not applicable					
VISCOSITY:					
Not applicable					
PARTITION COEFFICIENT:					
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:	Ingestion of significant amounts of welding electrodes is unlikely. If copper is 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.				
INHALATION:	Breathing metal dust may worsen symptoms of individuals with pre-existing chronic respiratory disease. Follow exposure guidelines for copper dust and fume. Acute exposure to dust or fume may cause upper respiratory tract irritation, metallic taste in 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 C36000.