

SAFETY DATA SHEET (SDS)

ID: **C102SP**

DATE ISSUED:

5/28/2015

SECTION 1 – PRODUCT IDENTIFICATION & COMPANY INFORMATION						
PRODUCT NAME:		C10200 OXYGEN FREE-SILVER PLATED COPPER				
OTHER DESIGNATIONS:		S:				
PRODUCT IDENTIFICATION:		N: Copper and Copper Alloys				
MANUFACTURER'S INFORMATION:			THE ELECTRIC MATERIALS COMPANY 50 SOUTH WASHINGTON STREET NORTH EAST, PA 16428			
EMERGENCY PHONE NO.:		o.: 814-725-9621	WEBSITE:	WWW.ELE	CMAT.COM	
RECOMMENDED USE AND RESTRICTIONS ON USE: Manufacturing & Industry for non-structural components predominantly to conduct electrical current.						
		SECTION 2 – HAZARD IDENTIFICA				
CLASSIFICA	ATION:	Copper and copper alloys are considered solid from. However, certain process and welding could result in some harmonic and solid from the country of the cou	sses such as zardous ma	cutting, mill terials being	ing, grinding, melting emitted.	
OTHER INFORMATION:		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 copper may produce airborne contaminants. Consult Sections 3 & 8 for further information.				
	SECTION	3 – COMPOSITION/INFORMATION	ON INGRED	IENTS		
CHEMICAL NAME		COMMON NAME	CA	S #	PERCENT WEIGHT	
Cu Ag		Copper Silver	7440 7440		99.99% 0.01%	
SECTION 4 – FIRST AID MEASURES						
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.					
SECTION 5 – FIREFIGHTING MEASURES						
SECTION 3 - FINEFIGHTING INTEASURES						

FLAMMABLE PROPERTIES: N			pplicable			
			pplicable; non-combustible			
			dust fire in a confined area, use	e a respirato	or approved for toxic dusts	
		and t	umes. Do not use water to exti	nguish fires	around operations	
			ving molten metal due to the po	otential for	steam explosions.	
	SECTIO	ON 6 -	ACCIDENTAL RELEASE MEASUR	RES		
When cleaning dust, use met	thods that mir	nimize	be picked up by hand or other the dispersion of dust such as a covered material in a suitable, co	a high effici	ency particulate air (HEPA)	
	SEC	CTION	7 – HANDLING AND STORAGE			
RECOMMENDE	D STORAGE:		tain good housekeeping to prev	•		
RECOMMENDE	D STORAGE.		nicals that may contaminate or i		• • •	
			product does not require specia		•	
		•	to installation. Installation and		•	
PROCEDURES FOR	HANDLING:		sure to dusts and other materia			
-			llation (work) environment. Op		G. G.	
		burning, and welding may generate dusts or fumes which may require				
			special handling procedures. EXPOSURE CONTROLS/PERSONAL PROTECTION			
					oforably) or gonoral	
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 used to capture dust and fume). Train personnel to minimize exposure to hazards during installation and replacement of product. On a regular basis, verify condition and			fumes do not exceed nachining is being used to are to hazards during verify condition and prope			
	function of	equip	nent in which the product will b	e installed.		
SUBSTANCI	E		ACGIH TLV		OSHA PEL	
•			mg/m³		mg/m³	
Cu			1		1 (dust) 0.2 (fume)	
Λα			0.2		<u>`</u>	
Ag SUPPLEMENTAL INFORMATI	ON		0.1 SUPPLEMENTAL INFORMATIO	NI.	0.1 SUPPLEMENTAL	
Individual protection measur			Individual protection measures		INFORMATION	
appropriate gloves to protect		ical	approved respirator, with the		Individual protection:	
hazards. Always wear safety	•		assigned protection factor, wh		Workers should was	
shields and appropriate hear	•		airborne concentrations of haz		before meals and leaving	
when grinding or cutting.			components exceed exposure listed above.	limits	work.	
OTHERWISE NOTED.	UE/AMERICAI		REIN ARE 8 HOUR TIMEWEIGHT		` ,	
<u> </u>			oot protection is recommended	d		
	SECTION	N 9 – I	PHYSICAL & CHEMICAL PROPER	TIES		
APPEARANCE/PHYSICAL STATE			JIONE & CHEMICAL I NOT LIN			
<u>-</u>	color					
Metallic solid with a copper of ODOR/ODOR THRESHOLD:	color		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

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The n					
The n		VN/IEDIZATIONI:			
	nalting at thi	HAZARDOUS POLYMERIZATION: The melting of this product may release			
mota	_	is product may release			
SECTION 11 – TOXICOLOGICAL INFORMATION					
		Labaractaristics			
	•				
		•			
		_			
g. nigne	i dust expos	sures may cause uninculty			
breathing, congestion, and chest tightness. FVE CONTACT: If present as dust, copper may cause irritation, discoloration, and damage. As a for					
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					
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					
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.					
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		Target Organ			
INIF	IAKC	Target Organ			
of n in e or unit	meta FORMATI mical and alth haza f throat, s ng. Highe itation, d e a dense cossible d ding elect e large queffects ma otoms of i uidelines oper respi ume fever ng chroni	metal oxides. FORMATION mical and toxicologica alth hazards. Dusts mand the first of throat, stomach and mang. Higher dust expositiation, discoloration, and a dense cataract and cossible discoloration ding electrodes is unlike large quantities of well fects may occur if land the first of			

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

SARA TITLE III SECTION 302 (40CFR 355), SARA TITLE III 311/312 (40 CFR 370), SARA TITLE III 313 (40 CFR 372)

Component	CAS#	% By Weight
Copper	7440-50-8	≥ 99.99
Silver	7440-22-4	≥ 0.01

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.

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.

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 C102SP.