	SAFETY DATA SHEET (SDS)	
SCHANN	SDS ISCO-003 Rev 2	
	RENEWAL DATE 01/22	
Meets the Requirements of OSHA Standard 29		
CFR 1910.1200 Hazard Communication and	MANGANESE BRONZE INGOTS	
EPA Supplier Notification Requirements under Section 313 of the Emergency Planning and		
Community Right-to-Know Act.		
	NTIFICATION & COMPANY INFORMATION	
PRODUCT NAME		
MANGANESE BRONZE	INGOTS	
OTHER DESIGNATIONS:		
UNS ALLOY Copper Alloy and/or Propriet	ary Designations:	
	99700	
· · >	99750	
C86200 C86500 C99600		
MANUFACTURER'S NAME	STREET ADDRESS	
I. Schumann Co LLC	22500 Alexander Road	
EMERGENCY TELEPHONE NO.	MAILING ADDRESS	
440-439-2300	22500 Alexander Road	
TELEPHONE NO.	CITY, STATE, ZIP CODE, COUNTRY	
440-439-2300	Bedford, Ohio 44146 USA	
FAX NO.	E-MAIL ADDRESS/WEBSITE	
440-439-0317	www.ischumann.com	
RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE		
Solid metal shapes; no restrictions		
SECTION 2—HAZARD IDENTIFICATION		
CLASSIFICATION		
	The INGOTS are metallic articles that do not present hazards in their original form.	
HAZARD STATEMENT:		



Fumes from hot processes may contain other compounds with different exposure limits. Dust or fumes generated by melting, machining, grinding, welding or thermal cutting of the product may produce airborne contaminants. Consult Sections 3 & 8 for further information.

PRECAUTIONARY STATEMENT:

Do not breathe fumes Wear protective gloves Do not eat, drink, or smoke when using this product

SECTION 3—COMPOSITION/INFOR CHEMICAL NAME/COMMON NAME/SYNONYM		DIENIS
	Wt %	CAS NUMBER
Aluminum (Al) Metal	0.5-7.5	7429-90-5
Cobalt (Co) Metal	0.0-0.2	7440-48-4
Copper (Cu) Metal	54.0-68.0	7440-50-8
Iron (Fe) Metal	0.4-4.0	1309-37-1
Lead (Pb) Metal	0.0-2.0	7439-92-1
Manganese (Mn) Metal	0.1-23.0	7439-96-5
Nickel (Ni) Metal	0.0-6.0	7440-02-0
Tin (Sn) Metal	0.0-2.5	7440-31-5
Zinc (Zn) Metal	17.1-42.0	7440-66-6
SECTION 4—FIRST AI		
EYE CONTACT: Not applicable to solid art		
SKIN CONTACT: No special requirements	for solid articles	
INGESTION: Not applicable		
INHALATION: Not applicable		
SECTION 5—FIREFIGHT		
FLAMMABLE PROPERTIES: The product in its present		
EXTINGUISHING MEDIA: Use fire extinguishing materia		
UNUSUAL FIRE AND EXPLOSION HAZARDS: If the al	loys in their molten form o	come in contact with
water, a severe steam reaction will cause the molten me	etal to be sprayed about th	ne area.
PROTECTION OF FIREFIGHTERS: Not applicable		
SECTION 6—ACCIDENTAL R		S
Not applicable		
SECTION 7—HANDLIN	G & STORAGE	
RECOMMENDED STORAGE		
No special requirements		
PROCEDURES FOR HANDLING		
	Ч	
Proper hand and foot protection is recommended		
Proper hand and foot protection is recommended SECTION 8—EXPOSURE CONTROL		ECTION
Proper hand and foot protection is recommended SECTION 8—EXPOSURE CONTROL ENGINEERING CONTROLS	S/PERSONAL PROT	
Proper hand and foot protection is recommended SECTION 8—EXPOSURE CONTROL ENGINEERING CONTROLS None Required prior to melting. There are no he	S/PERSONAL PROT	
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Proper hand and foot protection is recommended SECTION 8—EXPOSURE CONTROL ENGINEERING CONTROLS None Required prior to melting. There are no he form. SUBSTANCE Aluminum (AI) Metal Total Dust	S/PERSONAL PROT alth hazards from the ACGIH TLV mg/m ³ N/E	product in solid OSHA PEL mg/m ³ 15
Proper hand and foot protection is recommended SECTION 8—EXPOSURE CONTROL ENGINEERING CONTROLS None Required prior to melting. There are no he form. SUBSTANCE Aluminum (AI) Metal Total Dust Respirable Dust	S/PERSONAL PROT alth hazards from the ACGIH TLV mg/m ³ N/E 1 (R)	product in solid OSHA PEL mg/m ³ 15 5 (R)
Proper hand and foot protection is recommended SECTION 8—EXPOSURE CONTROL ENGINEERING CONTROLS None Required prior to melting. There are no he form. SUBSTANCE Aluminum (AI) Metal Total Dust	S/PERSONAL PROT alth hazards from the ACGIH TLV mg/m ³ N/E	product in solid OSHA PEL mg/m ³ 15
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Proper hand and foot protection is recommended SECTION 8—EXPOSURE CONTROL ENGINEERING CONTROLS None Required prior to melting. There are no he form. SUBSTANCE Aluminum (AI) Metal Total Dust Respirable Dust Cobalt (Co) Metal	S/PERSONAL PROT alth hazards from the ACGIH TLV mg/m ³ N/E 1 (R) 0.02 1 N/E	product in solid OSHA PEL mg/m ³ 15 5 (R) 0.1 1 N/E
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Proper hand and foot protection is recommended SECTION 8—EXPOSURE CONTROL ENGINEERING CONTROLS None Required prior to melting. There are no he form. SUBSTANCE Aluminum (AI) Metal Total Dust Respirable Dust Cobalt (Co) Metal Copper (Cu) Metal	S/PERSONAL PROT alth hazards from the ACGIH TLV mg/m ³ N/E 1 (R) 0.02 1 N/E	product in solid OSHA PEL mg/m ³ 15 5 (R) 0.1 1 N/E 30µg/m ³ AL 50µg/m ³ PEL
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Proper hand and foot protection is recommended SECTION 8—EXPOSURE CONTROL ENGINEERING CONTROLS None Required prior to melting. There are no he form. SUBSTANCE Aluminum (AI) Metal Total Dust Respirable Dust Cobalt (Co) Metal Iron (Fe) Metal Lead (Pb) Metal Manganese (Mn) Metal	S/PERSONAL PROT alth hazards from the ACGIH TLV mg/m ³ N/E 1 (R) 0.02 1 N/E 0.5 N/E	product in solid OSHA PEL mg/m ³ 15 5 (R) 0.1 1 N/E 30µg/m ³ AL 50µg/m ³ PEL (See 29CFR1910.1025) N/E
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SUPPLEMENTAL INFORMATION

Fumes from hot processes may contain other compounds with different exposure limits than those listed herein. Dust or fumes generated by machining, grinding, welding or thermal cutting of the INGOT 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.

person for guidance on exposure assessment ar	na controis.	
SUBSTANCE	ACGIH TLV	OSHA PEL
	mg/m ³	mg/m ³
Aluminum Oxide (Al)		
Total Dust	N/E	15
Respirable Dust	1 (R)	5 (R)
Cobalt (Co)		
Metal Dust and Fume	N/E	0.1
Metal and Inorganic Compounds	0.02	N/E
Copper Compounds		
Fume (Cu)	0.2	0.1
Dusts and Mists (Cu)	1	1
Iron Compounds		
Iron Oxide (Fe ₂ O ₃) Fume	N/E	10
Iron Oxide (Fe ₂ O ₃) Respirable	5 (R)	N/E
Lead Compounds		
Inorganic Compounds (Pb)	0.05	30µg/m ³ AL
		50µg/m ³ PEL
Manganaga Compounda (Mn)		(See 29CFR1910.1025)
Manganese Compounds (Mn)		5 (C)
Fume and Inorganic Compounds Nickel Compounds (Ni)	0.02 (R) 0.1 (I)	5(0)
Insoluble, Inorganic Compounds	0.2 (1)	1
Soluble, Inorganic Compounds	0.2 (I) 0.1 (I)	1
Nickel Oxide	0.2 (I)	1
Tin Oxide (Sn)	2	N/E
Zinc Compounds (Zn)		
Zinc Oxide Total Dust	N/E	15
Zinc Oxide Respirable Dust	2 / 10 STEL	5
Zinc Oxide Fume	N/E	5
TERMS		J

TERMS

All exposure limits referenced herein are 8 hour time weighted averages (TWA) unless otherwise noted.

N/E = None Established C = Ceiling I = Inhalable fraction R = Respirable fraction STEL = Short Term Exposure Limit TLV = Threshold Limit Value/American Conference of Governmental Industrial Hygienists (ACGIH) PEL = Permissible Exposure Limit / OSHA AL = Action Level / OSHA mg/m³ = milligrams per cubic meter µg/m³ = micrograms per cubic meter

PERSONAL PROTECTION				
Proper hand and foot protection is recon SECTION 9—P				
APPEARANCE /PHYSICAL STATE			ICAL PF	OPERTIES
Solid, Orange-red to brown in color				
		VAPOR DENSITY		
None		Not applicable		
MELTING POINT/FREEZING POINT		SPECIFIC GRAVITY (relative density)		
Approximately 1085°C (1984°F) for copper		8.96 g/cm ³ for copper (water = 1)		
BOILING POINT		VAPOR PRESSURE		
2562°C (4644°F) for copper		Not applicable		
FLASH POINT		EVAPORATION RATE		
Not applicable for solid product		Not applicable		
FLAMMABILITY		SOLUBILITY IN WATER		
PLANIMABILITY Product not flammable in solid form		Insoluble		
UPPER AND LOWER FLAMMABILITY LIMITS			На	
Not applicable for I product in solid f	orm		Not applicable	
AUTO IGNITION TEMPERATURE			VISCOS	
Not applicable				applicable
DECOMPOSITION TEMPERATURE				ION COEFFICIENT
Not applicable				applicable
	SECTION 10—STABILITY &			
CHEMICAL STABILITY: Product is stab	ole in solid	form		
CONDITIONS TO AVOID: None				
REACTIVITY: Not reactive			INCOM	PATIBLE MATERIALS:
			Not ap	olicable to product in solid form.
HAZARDOUS DECOMPOSITION PRO	DUCTS		HAZARDOUS POLYMERIZATION	
None			Not applicable	
SECTION 11-	-TOXICO	LOGICA	L INFOR	RMATION
POTENTIAL HEALTH EFFECTS				
EYE CONTACT: None				
SKIN: None				
INGESTION: None				
INHALATION: None				
Carcinog	en Classi	fication o		ents
INGREDIENT	OSHA	NTP	IARC	TARGET ORGAN(S)
Cobalt and Compounds	NL	NL	2B	Lung
Lead and Inorganic Compounds	NL	R	2A	Lung, Stomach, Liver, Kidney
Nickel Metal	NL	K	2B	Lung, Nasal passages
TERMS				
OSHA—Occupational Safety & Health		ation		
Y = Listed as a Human Carcinoger)			
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 Hur				
2B = Possibly Carcinogenic to Hum				
3 = Unclassifiable as to Carcinogenicity in Humans				
4 = Probably not Carcinogenic to Humans				
Other				
NL = Not Listed				

SECTI		ICAL INFORMATIO	N		
ECOTOXICITY			D DEGRADABILITY		
Not applicable		Not applicable			
BIOACCUMULATION POTENTIAL		MOBILITY IN SOIL			
Not applicable		Not applicable			
OTHER ADVERSE EFFECTS	I				
Not applicable					
	ON 13—DISPOSA	L CONSIDERATION	IS		
Recover or recycle if possible. Di					
collected from machining, welding					
state and local regulations.	<i>,</i> ,		,		
	ION 14—TRANSP	ORT INFORMATION	N		
US DEPARTMENT OF TRANSPORTATION		CANADIAN TRANSPORTATION OF			
(DOT)-HMR (Hazardous Material	s Registration)	DANGEROUS GOO	DDS (TDG)		
Not Regulated	U ,	Not regulated			
UN SHIPPING NAME					
Not regulated		Not regulated			
TRANSPORT HAZARD CLASS		PACKING GROUP			
Not regulated		Not regulated			
ENVIRONMENTAL HAZARDS		LABEL(S) REQUIR	ED?		
None		No			
TRANSPORT IN BULK		SPECIAL SHIPPING INFORMATION			
Not applicable		Not applicable			
	ON 15—REGULAT	ORY INFORMATIO	N		
US-OSHA (Hazard Communicati					
	200 Hazard Comm	unication Standard			
		s defined in 29CFR	1910 1200 (c)		
•		nts 29CFR1910.102	. ,		
US-EPA (Toxic Substances Cont					
		A inventory list or are	e excluded from listing.		
US-EPA (SARA Title III)		All components of these products are on the TSCA inventory list or are excluded from listing.			
Releases to the environment of Copper, Lead, Nickel, Manganese and Zinc (fume or dust) are					
Releases to the environment of	^F Copper, Lead, Nic	kel. Manganese and	d Zinc (fume or dust) are		
subject to reporting under S	ection 313 of Titl	e III of the Super	fund Amendments and		
	ection 313 of Titl	e III of the Super	fund Amendments and		
subject to reporting under S Reauthorization Act of 1986 an	ection 313 of Titl d 40 CFR Part 372	e III of the Super when you exceed th	fund Amendments and threshold quantities.		
subject to reporting under S Reauthorization Act of 1986 an This product contains the follo	ection 313 of Titl d 40 CFR Part 372 owing EPCRA Sec	e III of the Super when you exceed th tion 313 chemicals	fund Amendments and ne threshold quantities. subject to the reporting		
subject to reporting under S Reauthorization Act of 1986 an	ection 313 of Titl d 40 CFR Part 372 owing EPCRA Sec	e III of the Super when you exceed th tion 313 chemicals	fund Amendments and ne threshold quantities. subject to the reporting		
subject to reporting under S Reauthorization Act of 1986 an This product contains the follo requirements of Section 313 of	ection 313 of Titl d 40 CFR Part 372 owing EPCRA Sec	e III of the Super when you exceed th tion 313 chemicals	fund Amendments and ne threshold quantities. subject to the reporting		
subject to reporting under S Reauthorization Act of 1986 an This product contains the follo requirements of Section 313 of	ection 313 of Titl d 40 CFR Part 372 owing EPCRA Sec	e III of the Super when you exceed th tion 313 chemicals	fund Amendments and ne threshold quantities. subject to the reporting		
subject to reporting under S Reauthorization Act of 1986 an This product contains the follo requirements of Section 313 of 1986 (40 CFR 372):	ection 313 of Titl d 40 CFR Part 372 owing EPCRA Sec the Emergency Pla	e III of the Super when you exceed th tion 313 chemicals anning and Commur	fund Amendments and ne threshold quantities. subject to the reporting nity Right-to-Know Act of		
subject to reporting under S Reauthorization Act of 1986 an This product contains the follo requirements of Section 313 of 1986 (40 CFR 372): CHEMICAL NAME	ection 313 of Titl d 40 CFR Part 372 owing EPCRA Sec the Emergency Pla De minimis, %	e III of the Super when you exceed th tion 313 chemicals anning and Commur	fund Amendments and ne threshold quantities. subject to the reporting hity Right-to-Know Act of CAS NUMBER		
subject to reporting under S Reauthorization Act of 1986 an This product contains the follo requirements of Section 313 of 1986 (40 CFR 372): CHEMICAL NAME Copper (Cu) Metal Lead (Pb) Metal Nickel (Ni) Metal	ection 313 of Titl d 40 CFR Part 372 owing EPCRA Sec the Emergency Pla De minimis, % 1.0	e III of the Super when you exceed th tion 313 chemicals anning and Commun <u>Wt %</u> 78.0-85.0	fund Amendments and ne threshold quantities. subject to the reporting nity Right-to-Know Act of CAS NUMBER 7440-50-8		
subject to reporting under S Reauthorization Act of 1986 an This product contains the follo requirements of Section 313 of 1986 (40 CFR 372): CHEMICAL NAME Copper (Cu) Metal Lead (Pb) Metal	ection 313 of Titl d 40 CFR Part 372 owing EPCRA Sec the Emergency Pla De minimis, % 1.0 0.1	e III of the Super when you exceed th tion 313 chemicals anning and Commun <u>Wt %</u> 78.0-85.0 6.5-13.0	fund Amendments and ne threshold quantities. subject to the reporting nity Right-to-Know Act of CAS NUMBER 7440-50-8 7439-92-1		
subject to reporting under S Reauthorization Act of 1986 an This product contains the follo requirements of Section 313 of 1986 (40 CFR 372): CHEMICAL NAME Copper (Cu) Metal Lead (Pb) Metal Nickel (Ni) Metal	ection 313 of Titl d 40 CFR Part 372 owing EPCRA Sec the Emergency Pla De minimis, % 1.0 0.1 0.1	e III of the Super when you exceed th tion 313 chemicals anning and Commun Wt % 78.0-85.0 6.5-13.0 0-0.8	fund Amendments and ne threshold quantities. subject to the reporting hity Right-to-Know Act of CAS NUMBER 7440-50-8 7439-92-1 7440-02-0		
subject to reporting under S Reauthorization Act of 1986 an This product contains the follo requirements of Section 313 of 1986 (40 CFR 372): CHEMICAL NAME Copper (Cu) Metal Lead (Pb) Metal Nickel (Ni) Metal Manganese (Mn) Metal	ection 313 of Titl d 40 CFR Part 372 owing EPCRA Sec the Emergency Pla De minimis, % 1.0 0.1 0.1 1.0	e III of the Super when you exceed th tion 313 chemicals anning and Commun Wt % 78.0-85.0 6.5-13.0 0-0.8 0.1-23.0	fund Amendments and ne threshold quantities. subject to the reporting nity Right-to-Know Act of <u>CAS NUMBER</u> 7440-50-8 7439-92-1 7440-02-0 7439-96-5		
subject to reporting under S Reauthorization Act of 1986 an This product contains the follor requirements of Section 313 of 1986 (40 CFR 372): CHEMICAL NAME Copper (Cu) Metal Lead (Pb) Metal Nickel (Ni) Metal Manganese (Mn) Metal Zinc (Zn) Metal CANADA-WHMIS (Workplace Ha	ection 313 of Titl d 40 CFR Part 372 owing EPCRA Sec the Emergency Pla De minimis, % 1.0 0.1 0.1 1.0 1.0 1.0	e III of the Super when you exceed th tion 313 chemicals anning and Commun Wt % 78.0-85.0 6.5-13.0 0-0.8 0.1-23.0 0.5-4.0 Information System)	fund Amendments and ne threshold quantities. subject to the reporting hity Right-to-Know Act of CAS NUMBER 7440-50-8 7439-92-1 7440-02-0 7439-96-5 7440-66-6		
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subject to reporting under S Reauthorization Act of 1986 an This product contains the follor requirements of Section 313 of 1986 (40 CFR 372): CHEMICAL NAME Copper (Cu) Metal Lead (Pb) Metal Nickel (Ni) Metal Manganese (Mn) Metal Zinc (Zn) Metal CANADA-WHMIS (Workplace Ha This SDS has been prepared a Regulations (CPR) and the SDS CANADA DSL (Domestic Substa	ection 313 of Titl d 40 CFR Part 372 owing EPCRA Sec the Emergency Pla De minimis, % 1.0 0.1 0.1 1.0 1.0 azardous Materials ccording to the haz S contains the infor nces List) Inventory ucts are on the DSL	e III of the Super when you exceed th tion 313 chemicals anning and Commun Wt % 78.0-85.0 6.5-13.0 0.0-0.8 0.1-23.0 0.5-4.0 Information System) ard criteria of the Commution required by the y Status	fund Amendments and ne threshold quantities. subject to the reporting hity Right-to-Know Act of <u>CAS NUMBER</u> 7440-50-8 7439-92-1 7440-02-0 7439-96-5 7440-66-6		

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 Products comply with RoHS

CALIFORNIA PROPOSITION 65 Compliance

WARNING: This product contains or produces chemicals known to the State of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code 25248.5 et seq.)

US STATE REGULATORY INFORMATION

Some of the components listed in Section 3 may be covered under specific state regulations.

SECTION 16—OTHER INFORMATION		
SDS ISSUED BY	DATE	
EHS Department	09/20	
of I. Schumann Co LLC, Bedford Ohio		
NOTE		

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 applicable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.