Car 16	
SCHANN	SAFETY DATA SHEET (SDS) SDS ISCO-007 Rev 2
	RENEWAL DATE 01/22
Meets the Requirements of OSHA Standard 29	<u>KENEWAE DATE 01/22</u>
CFR 1910.1200 Hazard Communication and	YELLOW BRASS INGOT
EPA Supplier Notification Requirements under Section 313 of the Emergency Planning and	I LLEOW BRACO INCO I
Community Right-to-Know Act.	
	NTIFICATION & COMPANY INFORMATION
PRODUCT NAME	
YELLOW BRASS INGO	ſS
OTHER DESIGNATIONS:	
UNS ALLOY Copper Alloy Designations:	
C85200 C85800 C85700	
C85400 DZR Ingot	
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 CHEMIC	AL AND RESTRICTIONS ON USE
Solid metal shapes; no restrictions	
	-HAZARD IDENTIFICATION
CLASSIFICATION	
	that do not present hazards in their original form.
HAZARD STATEMENT:	
WAR	RNING V
	contain other compounds with different exposure

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/INFC	ORMATION ON INGRE	DIENTS
CHEMICAL NAME/COMMON NAME/SYNONYM	Wt %	CAS NUMBER
Aluminum (Al) Metal	0.0-0.8	7429-90-5
Cobalt (Co) Metal	0.0-0.2	7440-48-4
Copper (Cu) Metal	57.0-73.0	7440-50-8
Iron (Fe) Metal	0-0.5	1309-37-1
Lead (Pb) Metal	0.8-3.5	7439-92-1
Nickel (Ni) Metal	0.0-0.8	7440-02-0
Tin (Sn) Metal	0.0-1.5	7440-31-5
Zinc (Zn) Metal	21.0-41.0	7440-66-6
SECTION 4—FIRST		
EYE CONTACT: Not applicable to solid		
SKIN CONTACT: No special requirement		
INGESTION: Not applicable		
INHALATION: Not applicable		
SECTION 5—FIREFIGH	ITING MEASURES	
FLAMMABLE PROPERTIES: The product in its prese		
EXTINGUISHING MEDIA: Use fire extinguishing mate		ndina environment
UNUSUAL FIRE AND EXPLOSION HAZARDS: If the		
water, a severe steam reaction will cause the molten i	metal to be spraved about the	
PROTECTION OF FIREFIGHTERS: Not applicable	metal to be splayed about th	
SECTION 6—ACCIDENTAL		c
	RELEASE MEASURE	0
Not applicable		
ECOMMENDED STORAGE No special requirements ROCEDURES FOR HANDLING		
Proper hand and foot protection is recommend	led.	
SECTION 8—EXPOSURE CONTRO	<b>DLS/PERSONAL PROT</b>	ECTION
NGINEERING CONTROLS		
None Required prior to melting. There are no h	health hazards from the	product in solid
form.		product in solid
	ACGIH TLV	
		OSHA PEL
SUBSTANCE	mg/m <sup>3</sup>	mg/m <sup>3</sup>
Aluminum (AI) Metal		
Total Dust	N/E	15
Respirable Dust	1 (R)	5 (R)
Cobalt (Co) Metal	0.02	0.1
Copper (Cu) Metal	1	1
Iron (Fe) Metal	N/E	N/E
	0.5	30µg/m <sup>3</sup> AL
Lead (Pb) Metal		50µg/m <sup>3</sup> PEL (See 29CFR1910.102
	1	1
Nickel (Ni) Metal	1.5 (I)	1
	1.5 (l)	
Nickel (Ni) Metal Tin (Sn) Metal Zinc (Zn) Metal	1.5 (I) 2 N/E	1 2 N/E

## 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	t and controls.	
SUBSTANCE	ACGIH TLV	OSHA PEL
	mg/m <sup>3</sup>	mg/m <sup>3</sup>
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 <sub>2</sub> O <sub>3</sub> ) Fume	N/E	10
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) Respirable	5 (R)	N/E
Lead Compounds		
Inorganic Compounds (Pb)	0.05	30µg/m³ AL
		50µg/m <sup>3</sup> PEL
		(See 29CFR1910.1025)
Nickel Compounds (Ni)		
Insoluble, Inorganic Compounds	0.2 (I)	
Soluble, Inorganic Compounds	0.1 (I)	
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	· · · · · · · · · · · · · · · · · · ·	
All exposure limits referenced herein are 8 hour til	me weighted averages (T	wA) 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

DEDOONAL DOOTEOTION					
PERSONAL PROTECTION	mmandad				
Proper hand and foot protection is reco SECTION 9—P					
APPEARANCE /PHYSICAL STATE				OF ER HES	
Solid, Orange-red to brown in color					
ODOR/ODOR THRESHOLD			VAPOR DENSITY		
None			Not applicable		
MELTING POINT/FREEZING POINT			SPECIFIC GRAVITY (relative density)		
Approximately 1085°C (1984°F) for copper			$8.96 \text{ g/cm}^3$ 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		
Product not flammable in solid form			Inso	luble	
UPPER AND LOWER FLAMMABILITY	LIMITS		pН		
Not applicable for I product in solid	form			applicable	
AUTO IGNITION TEMPERATURE			VISCOS		
Not applicable				applicable	
DECOMPOSITION TEMPERATURE				ION COEFFICIENT	
Not applicable				applicable	
	10—STA		REACT	IVITY	
CHEMICAL STABILITY: Product is stat	ble in solid	form			
CONDITIONS TO AVOID: None					
REACTIVITY: Not reactive				PATIBLE MATERIALS:	
			Not applicable to product in solid form.		
HAZARDOUS DECOMPOSITION PRO None	00015		HAZARDOUS POLYMERIZATION Not applicable		
SECTION 11-	τονιοο				
POTENTIAL HEALTH EFFECTS				NMATION	
EYE CONTACT: None					
SKIN: None					
INGESTION: None					
INHALATION: None					
	gen Classif	fication o	f Ingredi	ients	
INGREDIENT	OSHA	NTP	IARC	TARGET ORGAN(S)	
Cobalt and Compounds	NL	NL	2B	Lung	
Lead and Inorganic Compounds	NL	R	28 2A	Lung, Stomach, Liver, Kidney	
Nickel Metal	NL	K	28	Lung, Nasal passages	
TERMS			20		
OSHA—Occupational Safety & Health	Administra	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 Resea			,	<i>.</i>	
1 = Carcinogenic to Humans					
2A = Probably Carcinogenic to Humans					
2B = Possibly Carcinogenic to Humans					
3 = Unclassifiable as to Carcinogenicity in Humans					
4 = Probably not Carcinogenic to Humans					
Other					
NL = Not Listed					

	12— ECOLOG	<b>ICAL INFORMATIO</b>	Ν
ECOTOXICITY			D DEGRADABILITY
Not applicable		Not applicable	
<b>BIOACCUMULATION POTENTIAL</b>	_	MOBILITY IN SOIL	
Not applicable		Not applicable	
OTHER ADVERSE EFFECTS			
Not applicable			
	I 13—DISPOSAI		IS
Recover or recycle if possible. Dispo	ose of according	to federal, state and	d local regulations. Dust
collected from machining, welding, e	etc. may be class	sified as a hazardou	s waste. Consult federal,
state and local regulations.	-		
SECTION	N 14—TRANSP	ORT INFORMATIO	N
JS DEPARTMENT OF TRANSPOR	RTATION	CANADIAN TRANS	SPORTATION OF
DOT)-HMR (Hazardous Materials R	Registration)	DANGEROUS GOO	DDS (TDG)
Not Regulated		Not regulated	
JN SHIPPING NAME		UN NUMBER	
Not regulated		Not regulated	
RANSPORT HAZARD CLASS		PACKING GROUP	
Not regulated		Not regulated	
ENVIRONMENTAL HAZARDS		LABEL(S) REQUIR	ED?
None		No	
RANSPORT IN BULK		SPECIAL SHIPPIN	G INFORMATION
Not applicable		Not applicable	
	15—REGULAT	ORY INFORMATIC	N
JS-OSHA (Hazard Communication			
		unication Standard	
The finished produ	uct is an article a	s defined in 29CFR	1910.1200 (c)
		nts 29CFR1910.102	
JS-EPA (Toxic Substances Control			
		A inventory list or are	e excluded from listing.
All components of these products		A inventory list or are	e excluded from listing.
All components of these products	are on the TSCA	•	•
All components of these products JS-EPA (SARA Title III)	are on the TSCA Copper, Lead, Ni	ckel, and Zinc (fum	e or dust) are subject to
All components of these products JS-EPA (SARA Title III) Releases to the environment of C	are on the TSCA Copper, Lead, Ni le III of the Supe	ckel, and Zinc (fum rfund Amendments	e or dust) are subject to and Reauthorization Act
All components of these products JS-EPA (SARA Title III) Releases to the environment of C reporting under Section 313 of Titl	are on the TSCA Copper, Lead, Ni le III of the Supe	ckel, and Zinc (fum rfund Amendments	e or dust) are subject to and Reauthorization Act
All components of these products JS-EPA (SARA Title III) Releases to the environment of C reporting under Section 313 of Titl	are on the TSCA Copper, Lead, Ni le III of the Supe en you exceed th	ckel, and Zinc (fum rfund Amendments e threshold quantitie	e or dust) are subject to and Reauthorization Act es.
All components of these products JS-EPA (SARA Title III) Releases to the environment of C reporting under Section 313 of Titl of 1986 and 40 CFR Part 372 whe	are on the TSCA Copper, Lead, Ni le III of the Supe en you exceed th ng EPCRA Sect	ckel, and Zinc (fum rfund Amendments e threshold quantitie tion 313 chemicals	e or dust) are subject to and Reauthorization Act es. subject to the reporting
All components of these products JS-EPA (SARA Title III) Releases to the environment of C reporting under Section 313 of Titl of 1986 and 40 CFR Part 372 whe This product contains the followir	are on the TSCA Copper, Lead, Ni le III of the Supe en you exceed th ng EPCRA Sect	ckel, and Zinc (fum rfund Amendments e threshold quantitie tion 313 chemicals	e or dust) are subject to and Reauthorization Act es. subject to the reporting
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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	10/15	
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.