

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet Copper Zinc (Brass)

1. Product and Company Identification	
Trade Name:	Copper Zinc (Brass)
Chemical Formula:	CuZn
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	XI'AN FUNCTION MATERIAL GROUP CO., LTD
Street:	No. 69, Gazelle Valley, High-Tech Zone
City:	XI'AN
State:	Shannxi
Zip Code:	710077
Country:	China
Tel #:	+86-29-88993870/+86-13519132051
	2. Hazards Identification
Signal Word:	Warning
Hazard Statements:	H410: Very toxic to aquatic life with long lasting effects
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Precautionary Statements:	P273: Avoid release to the environment P391: Collect spillage
	P501: Dispose of contents/container in accordance with local/regional/national/international regulations
HMIS Health Ratings (0-4):	
Health:	1
Flammability:	2
Physical:	1
	3. Composition
Chemical Family:	Alloy
Additional Names:	Copper-zinc metal alloy
Copper Zinc (Cu):	
Percentage:	0-100 wt.%
CAS #:	7440-50-8
EC #:	231-159-6

Zinc (Zn):	
Percentage: CAS #:	0-100 wt.% 7440-66-6
EC #:	231-175-3
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
	Flammable
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
-	special protection information. Isolate spill area and provide
	ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal.
	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from
Work/Hygienic Maintenance:	materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before
	eating and smoking. Do not blow dust off clothing or skin with
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.
8.	Exposure Controls and Personal Protection
Permissible Exposure Limits:	1 mg/m ³ as Cu dusts and mists, long-term value
Threshold Limit Value:	0.1 mg/m ³ as Cu fume, long-term value
Infestiola Limit Value:	1 mg/m ³ as Cu dusts and mists, long-term value 0.2 mg/m ³ as Cu fume, long-term value
Special Equipment:	None
Respiratory Protection:	Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a
	backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use
	equipment tested and approved under appropriate government
	standards.

Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.
9. Ph	ysical and Chemical Characteristics
Color	Yellow
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	128.9 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts with:	Acids, Strong bases, Strong oxidizing agents, Acid chlorides, Fluorine,
	Chlorides, Halogens, Nitrates, Carbon disulfide
Incompatible Conditions:	Water/moisture
Hazardous Decomposition Products:	Zinc, Zinc Oxide, Copper oxide
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	LD50: >5000 mg/kg for rat by mouth
Carcinogen:	N/A
Reproductive toxicity:	N/A
	12. Ecological Information
Aquatic Toxicity:	High
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative	
Notes:	N/A
	13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data		
Hazardous:	Hazardous as powder only.	
	PLANMABLE SOLID	
Hazard Class:	4.1 Flammable solids	
Packing Group:	III	
UN Number:	UN3089	
Proper Shipping Name:	Metal powders, flammable, n.o.s. (Copper Zinc (Brass))	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	Yes, Cu	
	16. Other Information	

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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