

## Safety Data Sheet

SDS C3604

Material Safety Data Sheet Number :	SDS-SH004
Version :	1
Publication Date :	12-08-2010
Revision Date :	01-07-2023

## 1、PRODUCT AND COMPANY IDENTIFICATION

Product Name :	BRASS ALLOY
Product Number :	C3604
Chemistry Name :	Cu-Zn Metal Alloy
Classification :	Metal Mixture
Manufacturer or Supplier Name :	Sherng Hwa Industry Co., Ltd
Manufacturer or Supplier Address :	No.28 Lugang Township, Changhua County, Taiwan
Manufacturer or Supplier Telephone :	04-7811177 FAX : 04-7811315
Manufacturer or Supplier Website :	<a href="http://www.shernghwa.com.tw/">http://www.shernghwa.com.tw/</a>
Emergency Phone :	04-7811177

## 2、COMPOSITION/INFORMATION ON INGREDIENTS

Chemistry Name :	Cu
CAS Number :	7440-50-8
Proportion :	C3604 57-61%

Chemistry Name :	Zn
CAS Number :	7440-66-6
Proportion :	Margin

OHSA : This product does not have danger when solid, its dust and smog have danger.

## 3、HAZARDS IDENTIFICATION

Emergency Overview :	Exposed to the working environment of the dust and smog for a long time, will cause and stimulate the injury as to eyes, respiratory system and skin, must wear and protect the utensil, including goggles and appropriate clothes, must protect all health; The body is contacted to the position, must wash completely.
Type Name :	Cu Zn mixture
Dangerous To Label The Classification :	The metal dust or smog causes the irritation to skin, eyes and has toxicity to the lung, but the metal finished product does not have danger.
Dangerous Progression (Dust And Smog)	Health : 1 ; Inflammable : 0 (0=is low 、4=is extremely high)

## 4 · FIRST AID MEASURES

Endanger as to the dust and smog :

Eyes keep in touch :	Wash within the upper and lower eyelids with a large number of fresh water (at least 15 minutes) If person it is uncomfortable to stimulate of eyes, send and cure the inspection immediately.
The skin keeps in touch	Wash with the fresh water.
Ingestion :	Drink water and press for and vomit, send and cure the inspection rapidly in a large amount.
Suck :	Send to, ventilate good shady and cool place, have a rest, get warm with towel, getting serious to send off, cure, check rapidly.

## 5 · FIRE-FIGHTING MEASURES

The burning materials :

Explosiveness :	No
Flammability :	No
Burning :	No
Bad temper flashes :	Non-applicable
Autoigniting :	Non-applicable

Fire-Extinguishing agent

Fire Fighting Way :	Use powder fire extinguishing agent of the universe on the surface of material.
Fire control is proposed	Notice the dust may result in exploding or can burn the gas to produce.

## 6 · ACCIDENTAL RELEASE MEASURES

This product may result in exploding, must remove the fire source while processing and producing the dust, only the dust type attitude may explode, so must install the dust absorption device, filter the dust in the air, in order to reduce its thickness of dust.

Leak in the air :	Non- applicable
Reveal in water :	Non- applicable
Let out in the ground :	Non- applicable

## 7 · Uses And The Storage And Transport Way

Take attentive matters:

Roll, prolong terminal surface of products should be taken carefully while being easy to hurt the skin. Should take care eyes, respiratory system and skin should be worn and protected the utensil to will produce the dust while cutting and processing.  
Take care the dust can't be leaked in the air.  
It is apt to cause weighing to have danger of overturning to need to pay attention to the products wounded, hanging will pay close attention to while transporting.  
While baling tapes to wipe out, terminal it can play, causes and hurts personnel's health, skin and eyes carefully. The dust on the clothes or utensil should be patted in order to wash the dust catcher clean, not available or other ways are dealt with.

## Storage the condition :

The storage permits the temperature at most : Have not avoided .  
Putting in the humidity or acid / soda material or acid / soda gas place.

## 8、EXPOSURE CONTROLS/PERSONAL PROTECTION :

Cu Exposed Standard	OSHA(PEL)		ACGIH(TLV)	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Smog	no data available	0.1	no data available	0.2
Dust	no data available	1	no data available	1
Zn Exposed Standard	OSHA(PEL)		ACGIH(TLV)	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Dust	no data available	no data available	no data available	no data available
Breathe and protect	Exposed to the working environment of the dust and smog for a long time, need breathing and protecting the utensil, wear NIOSH and authorize the dustproof gauze mask.			
Ventilate and protect	In the workplace, when will produce the smog and dust, there must be ventilation facilities device and collect the dust device, and can't hit the diet and smoke Yan in work.			
Eyes and skin are protected	Need to wear the goggles, the dustproof glove prevents hurting.			
Personnel protect	Should wear appropriate work clothes and safe shoes at the homework.			

## 9、PHYSICAL AND CHEMICAL PROPERTIES :

Appearance :	Solid Metal Of The Yellow Gloss
Melting Point :	930°C~1085°C
Boiling Point :	There are no materials
Proportion :	8.23
The vapour is clicked :	There are no materials
Solubility :	There are no materials
PH value 25°C	There are no materials

## 10、STABILITY AND REACTIVITY :

It is not the active substance.

## 11、TOXICOLOGICAL INFORMATION :

Dust: The ingestion, skin are contacted, sucked and eyes are contacted.  
Smog: Suck, the eyes contact and skin keep in touch.  
The finished product of this product does not have toxicity.

Animal's toxicity : This alloy products do not have toxicity.

The toxicity of its single composition explains for reference as follows :

Skin corrosivity: There are not this materials.

Irritation (skin, eyes) : Copper products will produce contacting inflammation of skin, zinc and have danger on eyes.

Acute toxicity: Powder of copper passes the ingestion of mouth, acute poisoning symptom, vomiting, unable sense and stomach ache, the dust is sucked too much, there is symptom of aching, having a fever etc..

The dust and smog will make asthma, patient of the pulmonary emphysema original the condition become more serious.

#### 12、ECOLOGICAL INFORMATION :

The finished product of this product does not have toxicity to the ecology.

Decomposing : There are not this materials.

Accumulating : There are not this materials.

Sudden change: : This product has no materials to reveal that will cause sudden change.

There is no toxicity : Copper thickness in water, in 0.015~3.0mg/L, especially in the soft water, once there is a public lecture that had toxicity to fish of a lot of kind, animal and soft animal, swimming living beings of the shellfish.

#### 13、DISPOSAL CONSIDERATIONS :

This product is not offal of harmfulness, can trust the retrieving trader to give reclaiming to deal with while abandoning.

#### 14、TRANSPORT INFORMATION :

The product division should keep in touch with water directly while transporting, and should pay attention to having danger of backfalling, turning over and falling to happen.

#### 15、REGULATORY INFORMATION :

Have particular decree stipulate in know, produce place of dust, must observe the intersection of labourer and safe the intersection of hygiene and the intersection of law and labourer work harmful substance permit the thickness standard in the surrounding air.

USA/OHSA : Occupational Safe & Health Administration

USA/ACGIH Guide to protective Clothing Cincinnati, OH : American Conferrence of Government Industrial Hygienists , 1987

USA/SARA313

#### 16、OTHER INFORMATION :

This SDS content materials should be used by all, transport, store or is exposed to the company / personnel of this product to fully understand and accept and apply it to using, process, make or produce and make on the homework regulation related to this product, this SDS materials content has already included the latest materials in as much as possible while compiling and editing again, but will not any guarantee all contents.