## 1. Company

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Responsible authority ： QA
Supervisor ： Kevin Huang
Revised ：09/JAN/2023

Report Name ： Brass
Product Number ： SDS C6801、C6802、C6804

## 2. Hazards identification

2-1. Symbols： Danger , Warning



2-2. Important Hazards Effort

2-2-1. Health effort ： Not data available，description in Unit 11
2-2-2. Environment effort： description in Unit 12
2-2-3. Physical and chemical properties： description in Unit 10
3-3. Special effort： Not data available
3-4. Symptom： Not date available
3-5. Classification： Not date available

（Note1）Products in the solid product is not hazardous，dust or mist arising from a health hazard under the US OSHA，For the human eye, skin and respiratory system irritation can cause injury Harm, must wear the appropriate protective device.

## 3. Composition/information on ingredients

3-1. Substance or Mixture： Substance

| 3-2. Name | Substance | Product identifier（CAS.No.） | concentration or range（%） |
|---|---|---|---|
| Copper | Cu | 7440-50-8 | 57~64 |
| Zinc | Zn | 7440-66-6 | Balance |
| Lead | Pb | 7439-92-1 | 0 ~ 0.10 |
| Bismult | Bi | 7440-69-9 | 0.50~4.0 |
| 3-3. Impurities | Substance | Product identifier（CAS.No.） | concentration or range（ppm） |
| Cadmium | Cd | 7440-43-9 | ≦75 |

## 4. First aid measures

4-1. Products for machining, resulting in first aid metal dust and smoke inhalation and direct contact

4-1-1. Eyes contact： A lot of flush contact area at least 15 minutes immediately taken to hospital
4-1-2. Skin contact： Rinse with soap and water, if allergic inflammation shall be taken to hospital
4-1-3. Inhale： Remove to fresh air, keep warm and immediately taken to hospital
4-1-4. Ingestion： Immediately taken to hospital
4-2. Major symptoms and measures： Not date available

4-3. For protection of emergency personnel： Not date available
4-4. For protection of doctor： Not date available
（註一）OSHA： OccupationalSafetyandHealthAdministration

## 5. Firefighting measures

5-1. Extinguishing Media： Noncombustible, NA
5-2. Special hazards： Noncombustible, NA
5-3. Special fire fighting procedures： Noncombustible, NA
5-4. Special protective equipment Firefighters： Noncombustible, NA

## 6. Accidental release measures

6-1. Personal protection： Solids, NA
6-2. Environmental protection： Solids, NA
6-3. Methods for cleaning up： Solids, NA

## 7. Handling and storage

7-1. Handling
7-1-1. Edge and bar products section easy to cut the skin should be carefully
7-1-2. Generating fines should be careful eye and skin contact, should wear protective device
7-1-3. Handling hanging should pay attention to avoid falling or capsized
7-1-4. Packing must pay attention and avoid not end bounce, injury to personnel
7-2. Storage
7-2-1. Store in a dry ventilated indoor place or spatial control of temperature and humidity
7-2-2. Non-exposure to high temperature and humidity outdoors. Avoid with acid, alkali, salt and other substances together store
7-2-3. Keep in flat place.

## 8. Exposure controls/personal protection

8-1. Management Concentration： Not date available
8-2. Allowable concentration： Powder 0.2mg/$m^3$
Fog 1mg/$m^3$
8-3. Countermeasure equipment： Usually it does not require any protective equipment, if the allowable concentration of smoke exceeds the value, must set the local exhaust
8-4. Personal protection
8-4-1. Respiratory protection： There are dust, fine sawdust, powder used.
8-4-2. Eye protection： Wear Safety glasses.
8-4-3. Hand protection： Wear protective gloves.

## 9. Physical and chemical properties

Outward： Red with metallic luster
Physical state： Solid
Odor： None
Melting/Freezing point： 1085℃
Boiling point： 2630℃
Flash point ： Not data available
Specific gravity ： 8.92
Evaporation rate： Not data available
Flammability（solid、gas）： Non-flammable
Log Kow： Not data available

| | |
|---|---|
| Solubility： | Insoluble in water |
| Auto-ignition temperature： | Not data available |
| Decomposition temperature： | Not data available |
| Dynamic viscosity： | Not data available |
| Explosive properties： | Non-explosive |
| Explosive limits： | Not applicable |
| Oxidation characteristics： | None |
| Ignition temperature： | None |
| Vapor pressure： | None |

## 10. Stability and reactivity

| | |
|---|---|
| 10-1. Stability： | Stable under normal conditions |
| 10-2. Conditions to avoid： | Exposure to moist air |
| 10-3. Incompatible materials： | Acids, bases and salts |
| 10-4. Hazardous decomposition products： | Not data available |

## 11. Toxicological information

Alloy no information reported，each element of the relevant information as follows

| | |
|---|---|
| 11-1. Acute toxicity： | Not classified |
| 11-2. Local Effect： | Not data available |
| 11-3. Carcinogenicity： | Not data available |
| 11-4. Chronic or long-term toxicity： | Chronic liver and kidney poisoning hazard |
| 11-5. Symptoms/injuries after skin contact： | Causes skin irritation. |
| 11-6. Symptoms/injuries after eye contact： | Cooper&zinc powder cause eyes contact dermatitis |

## 12. Ecological information

| | |
|---|---|
| 12-1. Toxicity： | Copper concentration in the water on 0.015~3.0mg/1.Harmful to aquatic life. with long lasting effects. |
| 12-2. Persistence and degradability： | No additional information available |
| 12-3. Bioaccumulative potential： | No additional information available |
| 12-4. Mobility in soil： | No additional information available |
| 12-5. Other adverse effect： | No additional information available |

## 13. Disposal considerations

Product not belong to hazardous waste, can delegate shall be discarded recyclers recycling process

## 14. Transport information

| | |
|---|---|
| 14-1. International transport regulations： | No additional information available |
| 14-2. UN number： | Cu（UNNO.）1325 |
| 14-3. Domestic transport regulations： | No additional information available |
| 14-4. Precautions： | Do not direct contact with water，Note that there will be fall and turn over. |

## 15. Regulatory information

| | |
|---|---|
| 15-1. Applicable Regulations： | No specific decree |
| 15-2. International regulations： | Note 1 |

## 16. Other information

Other information： None