



SDS Service Summary

No.: CANPC24002329801

Date: 08 Feb 2024

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SGS Job No. : GZPC2401000573(QDIN2401000126PC01)
Product Name : Copper clad aluminum flat bar
Manufacturer / Supplier : YANTAI FISEND BIMETAL CO., LTD.
Country of Origin : China
Composition/Ingredient of product (as per applicant submission) : See *section 3 Composition/information on ingredients* on the SDS
Job Receiving Date : 31 Jan 2024
SDS Preparation Period : 31 Jan 2024 - 02 Feb 2024

Service Requested : Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and US Hazard Communication Standard 29 CFR 1910.1200.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with US Hazard Communication Standard 29 CFR 1910.1200, and is provided per attached.

Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill US Hazard Communication Standard 29 CFR 1910.1200 and communicate the hazard information of chemicals through the supply chain to ensure safe use. It is not a test report or a certificate ensuring the safety of a product.

SGS has consolidated product information based on documents provided by Applicant (i.e. product name, the supplier details, product composition, available physical data, etc.) without independent verification from SGS. The information is provided without any warranty, express or implied, regarding its correctness.

Zm guan
Project Engineer

Safety Data Sheet

29 CFR 1910.1200

Printing date 02/02/2024

Reviewed on 01/31/2024

1 Identification

- **Product identifier**
- **Trade name:** Copper clad aluminum flat bar
- **Recommended use of the chemical and restrictions on use:**
- **Application of the substance / the preparation:** Conductive material
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** YANTAI FISEND BIMETAL CO., LTD.
- **Full address:** 575 WUWU ROAD, MUPING, YANTAI, CHINA
- **Phone number:** 05354708188
- **Email:** sales@fisend.com
- **Other U.S. contact point:** Not available
- **Further information obtainable from:** YANTAI FISEND BIMETAL CO., LTD.
- **Emergency telephone number:**
Poison Center
Tel: +1 800 222 1222
- **Reference Number:** CANPC24002329801, GZPC2401000573(QDIN2401000126PC01)
- **Remark:**
This product is likely to be classified as article and is out of scope of a SDS as set out in 29 CFR Part 1910.1200. This SDS is generated for applicant's reference only.

2 Hazard(s) identification

- **Classification of the substance or mixture**
The product is not classified according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
- **Information concerning particular hazards for human and environment:**
The product has not to be labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200).
- **Classification system:**
The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.
- **Label elements**
- **Labelling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable
- **Hazard-determining components of labeling:** Not applicable
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **Hazards not otherwise classified (HNOC)** No further relevant information available.

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:**
Mixture of the substances listed below with nonhazardous additions.
For the wording of the listed hazard statements refer to Section 16.

- **Composition:**

CAS: 7440-50-8	Copper	52.4-58.5%
CAS: 7429-90-5	Aluminum	41.5-47.6%

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4 First-aid measures

- **Description of first aid measures**
- **General description:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Special protective equipment and precautions for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.

7 Handling and storage

- **Precautions for safe handling:**
No special measures required.
For the general occupational hygienic measures refer to Section 8.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

8 Exposure controls/personal protection

- **Components with limit values that require monitoring at the workplace:**

CAS: 7440-50-8 Copper (52.4-58.5%)

PEL (USA)	Long-term value: 1* 0.1** mg/m ³ as Cu *dusts and mists **fume
REL (USA)	Long-term value: 1* 0.1** mg/m ³ as Cu *dusts and mists **fume
TLV (USA)	Long-term value: 1* 0.2** mg/m ³ *dusts and mists; **fume; as Cu

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CAS: 7429-90-5 Aluminum (41.5-47.6%)

PEL (USA)	Long-term value: 15*; 5** mg/m ³ *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ as Al*Total dust**Respirable/pyro powd./welding f.
TLV (USA)	Long-term value: 1* mg/m ³ as Al; *as respirable fraction, A4

Regulatory information

PEL (USA): Guide to Occupational Exposure Values (OSHA PELs)
REL (USA): Guide to Occupational Exposure Values (NIOSH RELs)
TLV (USA): Guide to Occupational Exposure Values (TLV)

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.**
- **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.
- **Individual protection measures, such as personal protective equipment**
- **Breathing equipment:** Not required.
- **Hand protection:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection:** Not required.

9 Physical and chemical properties

General Information

Appearance:

Form:	Solid
Color:	Metallic copper
Odor:	None
Odor threshold:	Not available

pH-value: Not available

Change in condition

Melting point/Freezing point: 550 °C (1,022 °F)
Initial boiling point and boiling range: Not available

Flash point: Not available

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· Flammability (solid, gas):	Not available
· Auto-Ignition temperature:	Not available
· Decomposition temperature:	Not available
· Lower and upper explosion limit	
Lower:	Not available
Upper:	Not available
· Vapor pressure:	Not available
· Density:	4.25-4.56 g/cm ³ (35.46625-38.0532 lbs/gal)
· Relative density:	4.25-4.56
· Vapor density:	Not available
· Evaporation rate:	Not available
· Solubility in / Miscibility with Water:	Insoluble in water
· Partition coefficient (n-octanol/water):	Not available
· Viscosity:	
Dynamic:	Not available
Kinematic:	Not available
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** 550 °C High temperature, acid and alkali environment, high salt and humidity, etc.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** Not available
- **Skin corrosion/irritation:** Irritating effect possible.
- **Serious eye damage/irritation:** Irritating effect possible.
- **Respiratory or skin sensitization:** Sensitization possible.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
The product is not subject to classification according to internally approved calculation methods for preparations.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.
- **NTP (National Toxicology Program)**
None of the ingredients is listed.

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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

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| · UN-Number | |
| · DOT, IMDG, IATA | Not applicable |
| · UN proper shipping name | |
| · DOT, IMDG, IATA | Not applicable |
| · Transport hazard class(es) | |
| · DOT, IMDG, IATA | |
| · Class | Not applicable |
| · Label | - |
| · Packing group | |
| · DOT, IMDG, IATA | Not applicable |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable |
| · Transport/Additional information: | Not dangerous according to the above specifications. |
| · UN "Model Regulation": | Not applicable |

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15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

All ingredients are listed.

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· New Jersey Right-to-Know List:

All ingredients are listed.

· New Jersey Special Hazardous Substance List:

7429-90-5	Aluminum	F3, R1
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· Pennsylvania Right-to-Know List:

All ingredients are listed.

· Pennsylvania Special Hazardous Substance List:

All components have the value E.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

7440-50-8	Copper	D
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· TLV (Threshold Limit Value)

7429-90-5	Aluminum	A4
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· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

16 Other information

The contents and format of this SDS are in accordance with 29 CFR 1910.1200.

DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

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· **Date of preparation / last revision** 02/02/2024

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

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