

# MATERIAL SAFETY DATA SHEET

Date : Jan. 8, 2018

MSDS No. MWCP2017

Last updated : Jan. 8, 2018

## 1. IDENTIFICATION OF THE PRODUCT AND COMPANY

Trade Name : Copper-Coated Piano Wire with Electrical Conductivity  
Product Name : MAC WIRE CP-PA (JIS G3522 SWP-A-Cu)  
MAC WIRE CP-PB (JIS G3522 SWP-B-Cu)  
MAC WIRE CP-PH (JIS G3522 SWP-H-Cu)  
Company Name : MARUBISHI CO., LTD.  
Address : 399 Minaminaka-Kashii, Izumisano City, Osaka, 598-0035 Japan.  
Telephone No. : 072-466-0022  
FAX No. : 072-466-0099

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Family : Metals  
Chemical Name : High Carbon Steel Wire  
Material Specification : Steel type JIS G3502 SWRS-82A

			CAS No.
: Component	C	: 0.80-0.85%	<u>7440-44-0</u>
	Si	: 0.12-0.32%	<u>7440-21-3</u>
	Mn	: 0.30-0.60%	<u>7439-96-5</u>
	Cu	: 8.0% and under	<u>7440-50-8</u>
	Fe	: Balance	<u>7439-89-6</u>

\* A little inescapable impurities other than the above-mentioned ingredient, such as phosphorus (P), sulfur(S), chromium (Cr), copper (Cu), are included in steel.

Coatings : Copper Plating (Cu :100%)  
Lubricant : Silicone oil

## 3. HAZARDS IDENTIFICATION

Classification : It does not correspond to a standard of classification.  
With a product, there are not explosiveness, inflammability, spontaneous combustibility, an oxidizing quality, acute toxicity, and corrosion stimulativeness.  
Hazard Statement : If fume of the zinc which volatilized under high temperature is inhaled, A high fever comes out. (Metal fume fever)

## 4. FIRST-AID MEASURES

Eye Contact : Seek immediate medical treatments if a edge of or debris of steel wire sticks in the eye.  
Skin Contact : Immediately removed if a edge or debris of steel wire sticks in the skin. Obtain medical attention if symptoms develop.  
Ingestion : Seek immediate medical treatments if ingest debris of steel wire.

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## 5. FIRE FIGHTING MEASURES

Packing materials are inflammability although steel wire is nonflammability.

Extinguisher Media : Especially the extinguishing media that can be used have no specification.

Fire Fighting Instructions : Digestive work certainly uses protective equipment according to a general fire.

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## 6. HANDLING AND STORAGE

Handling : A edge of or debris of steel wire may damage skin. Unpacking of the coil requires safety precautions. Its edge may spring out when you cut a hoop (or band) binding the coil.

Storage : Avoid unnecessary contact with water and/or acid and high-temperature/high-humidity environments. With heavy products, beware of falling products.

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## 7. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Red-white solid in general environments.

Odor : Odorless

Density : about 7.83 g/cm<sup>3</sup>

Melting Point : 1,440~1,535°C

Melting Point(Cu) : 1,085°C

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## 8. TRANSPORT INFORMATION

Land Transport ADR, RID

Class : Not classified for transport

Sea Transport ADR, RID

Class : Not classified for transport

Air Transport ADR, RID

Class : Not classified for transport

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## 9. REGULATORY INFORMATION

Follow all regulations in your country .

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This MSDS was created in accordance with JIS(Japanese Industrial Standards) Z7250:2010 "Safety data sheet for chemical products-Part1: Content and order of sections."

Its terminology follows JIS. This MSDS provides you with what information we had available at the time the sheet was made-as a reference-so that you may safely handle the products. Based on this information, you are responsible for taking appropriate measures according to each case of handling.

Therefore, this MSDS does not ensure the safety of the products. There may be a risk that this sheet does not describe all situations (i. e., something that we do not have knowledge of).