

MSDS #122

TO MC MACHINERY SYSTEMS, INC.

MATERIAL SAFETY DATA SHEET

(based on Form OSHA-174) MSDS

IDENTITY (As used on the Label and List)

Product Class: 2700

Trade Name: BS WVNp (Van-TG)

SECTION

Manufacture's Name and Address

The Furukawa Electric Co., Ltd.

2-6-1 Marunouchi, Chiyoda-ku, Tokyo 100-8322, Japan

Unit in charge

Metals Group, 1-st Sales Dept. TEL: 81-3-3286-3848 FAX: 81-3-3286-3289

Emergency Information

Quality Control Sec. Nikko Copper Works TEL: 81-288-54-2277 FAX: 81-288-53-4405

Prepared

Technical & Engineering Department, Metals Group 5. Feb. 2001

SECTION - Hazardous Ingredient / Identify Information

Class (Simple or Mixture) : Mixtures

Chemical Name : Copper-i n c Alloy

Component :

Component	% by wt.	CAS No.		
Copper (Cu)	63.0 68.5	7440 50 8		
	7440 66 -		Zinc (Zn)	Bal.

Chemical formula : Cu - Zn

Hazardous Components : Nothing for ordinary service condition

"Copper" and "Zinc" have toxicity of acute See Section .

SECTION - Physical / Chemical Characteristics

Specific Gravity 8.47

Boiling Point (deg. centi.) Cu = 2630, Zn = 907

Melting Point (deg. Centi) 905 930

Solubility in Water Not Applied

Appearance Glossy Red (solid)

Odor None

SECTION - First Aid Measures

Occurrence of powder or dust after machining, grinding this materials.

a) Enter the yes : Wash out with clean running water over 15 minute. If feel pain, consult eye doctor immediately.

b) Adhere to skins: Wash out with soap and water then rinse with many water.

... INHALING VAPOR TO BREATHE AIR IMMEDIATELY, then lie quietly keeping warm. Get immediate medical attention.

Directly irritating dust work

- a) Scalded skins : Cool affected part with running water immediately. If serious, get immediate medical attention.
- b) Swallowing tips : Rinse mouth with water, get immediate medical attention.

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### SECTION - Fire and Explosion Hazard Data

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Flash point ( Method Used) : N A  
 Flammable Limit : N A ( LEL / UEL: N A )  
 Extinguishing Media : N A ( Stable, nonflammable substance )  
 Special Fire Fighting Procedures : Not specified  
 Unusual Fire and Explosion Hazards : Metal products do not present fire or explosion hazards under normal conditions.

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### SECTION - Reactivity Data

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Stability : Stable under normal conditions of use, storage, and transportation.  
 Incompatibility ( Materials to avoid ) : Nothing  
 Hazardous Decomposition or Byproducts : Nothing  
 Hazardous Polymerization : Will not Occur

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### SECTION - Health Hazard Data

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Nothing for the mixtures. Refer as follows, for component Elements.

Skin Corrosion : No Data

Irritant Property : Copper cause Inflammation, rarely.  
 ( Skin, Eye )

Sensitization : No Data

Acute toxicity : Copper

Mouse LD<sub>50</sub> > 4000 mg / kg for Copper powder

Swallowing may cause, Nausea, Vomiting, and a Feeling of Lassitude.

Inhalation of powder, dust and fume may cause Cough, Breast, and fit for Fever.

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#### Zinc

Fume may cause Cough, Breast, and fit for Fever after several hours from Inhalation of the fume.

Semi - acute toxicity : No Data

Chronic toxicity : Copper

Symptoms of Chronic poison characterize impediments of the Liver and the Kidney.

#### Zinc

Very rare

Carcinogenicity : N A

Mutagenicity : N A

Teratogenicity : N A

### SECTION - Precautions for State handling , Use and Disposal

Steps to be Taken in Case Material is Released or Spilled : N A

Waste Disposal Method : Collect scrap for remelting.

Precautions to be taken in handling and storing : No special requirements

Other Precautions : No special requirements.

### SECTION - Ecological Information

Biodegradability : No Data

Fish on Toxicity : TLm (Cu) 48 Hr as form CuSO<sub>4</sub>

Salmongairdneri : 0.038 0.8 ppm

Oryzias Latipes : 2.1 2.4ppm

BOD COD : N A

### SECTION - Exposure controls personal protection

Control Density : N A

Allowance Density : Not applied for ordinary service also. In occurrence of the fume or the dust, refer to the under table.

Component	The Japan Institute of Industrial Hygienics Advised Value	ACGIH (TLV)	OSHA (PEL)
Copper "Cu"	N A	Time weighted Average 1.0 (Dust)	0.2 (Fume)
		Short time exposure Limit 2.0 (Dust)	0.1 (Fume)
Zinc "Zn"	5.0 (Fume)	5.0 (Fume) 100 (dust)	5.0 (Fume) 100 (15 min. Max) 100 (dust) 50 (to breath)
Equipment	: No special equipments ordinary. In occurrence of the fume or the dust with densities over that table, you shall install local exhaust or Ventilation, must use mask at least.		
Protectors	: < For hands and fingers > To avoid cut at edges, do not deal by bare hands, use gloves. < For eyes > In working, to avoid injury use glasses.		

Other protective Clothing or Equipment : None

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**SECTION**   -- **Transport Information**

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In Japan : No regulated

Precautions : Keep dry with sheet covers, for example.

Take care not to drop and pull down.

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**Caution**

Information herein is given in good faith as authoritative and valid ; however , no warranty , express or implied can be made.

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