

**MATERIAL SAFETY DATA SHEET****Copper Powder****Page 1 of 4****1.) Product & Company Identification**

Supplier : Me-Toz Metal Tozları Makina Yedek Parça San.Tic.Ltd.Şti.  
Altintepe Mah. İlkbahar Çıkmazı Sk. No.3 K.2 D.3 Maltepe - İstanbul  
Emergency Contact : TEL : 0090 216 489 45 40 GSM : 0090 532 282 3749  
Manufacturer : Me-Toz Metal Tozları Makina Yedek Parça San.Tic.Ltd.Şti.  
Altintepe Mah. İlkbahar Çıkmazı Sk. No.3 K.2 D.3 Maltepe - İstanbul  
Product Name : Irregular Copper Powder

**2.) Composition / Information on Ingredients**

Composition % : Copper (Cu) %99,50 min.  
Particle Shape : Irregular  
Appearance : In Copper Colour Irregular Powder

**3.) Hazards Identification**

Eye Hazards : Eye exposure to finely-divided forms of product may produce local irritation, conjunctivitis, and ulceration of the cornea.

Skin Hazards : Skin contact with solid forms is not known to be hazardous. In finely divided forms, skin contact may produce localized irritation, discoloration, and contact dermatitis.

Ingestion Hazards : Ingestion of finely-divided forms of product may produce gastric irritation.

Inhalation Hazards : Inhalation of the components and reaction byproducts of these materials does not pose a significant risk to health when used according to instructions and with appropriate protective measures (see section #8). The Components and reaction byproducts have been reported to cause one or more of the following symptoms/effects when exposure has been excessively high and/or prolonged:

COPPER : Acute exposure may cause respiratory tract irritation, fever, muscle ache, chills, cough, weakness, and a metallic taste. Chronic exposure may damage the liver, kidney, spleen, pancreas, and brain.

Conditions Aggravated By Exposure  
Pre-existing pulmonary diseases (e.g., bronchitis, asthma) may be aggravated by inhalation exposure, particularly as fume. Chronic exposure by inhalation and/or ingestion may aggravate pre-existing diseases of the liver, kidneys, gastrointestinal system, and nervous system.

**4.) First Aid Measures**

Eye : Flush affected areas with water for at least 15 minutes. Seek medical assistance if necessary.

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- Skin** : Remove contaminated clothing. Wash affected area with large quantities of water for at least five minutes. Seek medical assistance if necessary.
- Ingestion** : If subject is conscious, induce vomiting. If unconscious or convulsive, seek immediate medical assistance.
- Inhalation** : If signs and symptoms of toxicity are observed, remove subject from area, administer oxygen, and seek medical attention. Keep the subject warm and at rest. Perform artificial respiration if breathing has stopped.
- Note to Physician** : None of the Components of these products are acutely toxic by ingestion. If ingested, treat symptomatically. Inhalation of high levels of the component copper has been known to cause metal fume fever.

**5.) Fire Fighting Measures**

- Fire and Explosion Hazards** : In finely-divided form, these products may ignite when exposed to flame or by reaction with incompatible materials (see section #10). Products explosions involving these Products may emit fumes of the constituent metals.
- Extinguishing Media** : Use dry powder. Do not use water.
- Fire Fighting Instructions** : If fighting a fire in which these products are present, wear a self-contained breathing apparatus with full-facepiece operated in pressure-demand or other positive pressure mode.

**6.) Accidental Release Measures**

Clean up spilled material so as to minimize dispersion of dust. Wet sweeping or vacuuming using HEPA filtration are recommended methods.

**7.) Handling and Storage**

- Handling Precautions** : No special handling precautions are required.
- Storage Precautions** : Do not store in proximity to incompatible materials (see section #10).
- Work/Hygienic Practices** : To minimize the possibility of ingestion, wash hands and face before eating, drinking, or using cosmetics or tobacco.

**8.) Exposure Controls / Personal Protection**

- Engineering Controls** : Use appropriate ventilation (e.g., dilution, local exhaust) adequate to maintain concentrations of all Components to within their respective applicable standards.
- Eye/Face Protection** : Wear eye protection adequate to prevent contact with finely-divided forms of product and injury from the hazards of brazing. Plastic-frame spectacles with side shields and filter lenses (shade #3 or #4) are recommended.

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Skin Protection : Wear appropriate protective gloves and clothing to prevent skin injuries from the hazards of brazing and/or for prolonged or repeated contact with finely-divided material. Avoid flammable fabrics.

Respiratory Protection : If an exposure level(s) exceeds its applicable Standard, wear an approved respirator having a configuration (class, facepiece, filtermedia, assigned protection factor, etc.) appropriate to the concentration(s) of the contaminant(s) generated.

Ingridient (s) – Exposure Limits :

**OSHA PELs****ACGIH TLVs**

		<b><u>OSHA PELs</u></b>	<b><u>ACGIH TLVs</u></b>
<b>COPPER</b>	Fume	0,1 mg/m <sup>3</sup> TWA	0,2 mg/m <sup>3</sup> TWA
	Dusts & Mists	1,0 mg/m <sup>3</sup> TWA	1,0 mg/m <sup>3</sup> TWA

**9.) Physical and Chemical Properties**

Appearance : Irregular Powder  
Particle shape : Irregular  
Colour : Copper  
Odour : Odourless  
Physical State : Solid  
Chemical Type : Pure  
Vapor Pressure : N/A  
Vapor Density : N/A  
Solubility : Insoluble

**10.) Stability and Reactivity**

Stability : Stable  
Hazardous Polymerization : will not occur  
Conditions To avoid (stability) : Copper can form an unstable acetylide upon contact with acetylene gas.  
Incompatible Materials : Strong oxidizers; Se; Te; chlorates; NH<sub>3</sub>; HNO<sub>3</sub>; azides, ethanol, ethyleneimine; chlorine trifluoride; inorganic and organic peroxides; peroxyformic acid; fluorine; permonosulfuric acid; CrO<sub>3</sub>, Mn & Ca chlorides; nitrobenzene; hydrazinemononitrate; ferric carbonyl; carbon disulfide; seleninyl bromide.  
Hazardous Decomposition Products : Heating to elevated temperatures may liberate fumes of the constituent metals.

**11.) Toxicological Information**

Chronic /Carcinogenicity : None of the components of these products are classified as potential or demonstrated carcinogens by IARC, NTP, or OSHA.

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**12.) Ecological Information**

In their intended manner of use, these Products should not be released into the environment, and adverse effects on ecosystems should not occur when recommendations for use, storage, and proper disposal are followed.

**13.) Disposal Considerations**

Dispose of unused or unusuable product in accordance with applicable Federal, State/Provincial, and local regulations.

**14.) Transport Information**

Shipment of these Products is not subject to USDOT/ICAO/IMO regulations.

**15.) Regulatory Information**

Control of Substances Hazardous to Health Regulations.

**16.) Other Information**

No Data Available...

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Metoz Metal Tozları Makine Yedek Parça San. Tic.Ltd.Şti.