

MATERIAL SAFETY DATA SHEET according to 91/155/EC

Document Code: AG-F-064

Prepared at :18/02/2011

Revised at :-

Revision No :0

11000 Copper Powder

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : 11000 Copper Powder
Chemical Name : Copper Powder
Supplier : Sentes-BIR A.Ş.
Ankara asf. 26. Km. 35170 Kemalpaşa/İzmir
Phone: +90 (232) 878 4700
Fax: +90 (232) 878 4701

2. COMPOSITION, INFORMATION ON INGREDIENTS

Substance/Preparation : Substance

Information on Hazardous Ingredients:

Chemical Name	CAS No.	EC No.	%	Symbol	R Phrases
Copper	7440-50-8	231-159-6	100	-	-

3. HAZARD IDENTIFICATION

Physical/chemical hazards : -
Environmental hazards : -
Human health hazards : During operations, the most significant route of overexposure is via inhalation of powder.

4. FIRST AID MEASURES

First aid measures:

Ingestion : Ingestion is not a likely route of exposure for these products. If swallowed call physician immediately! Do not induce vomiting unless directed by medical personnel. Rinse mouth with water if person is conscious. Never give fluids or induce vomiting if person is unconscious, having convulsions, or not breathing.

Inhalation : If fumes or powder generated by operations involving this product are inhaled, remove victim to fresh air. If necessary, use artificial respiration to support vital functions.

Skin : If fumes generated by operations involving this product contaminate the skin, begin decontamination with running water. If molten material contaminates the skin, immediately begin decontamination with cold, running water. Minimum flushing is for 15 minutes. Victim must seek medical attention if any adverse reaction occurs.

Eyes : If fumes generated by operations involving this product enter the eyes, open victim's eyes while under gently running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Victim must seek

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immediate medical attention.

5. FIRE FIGHTING MEASURES

- Extinguishing media : CO₂, dry chemical, water spray.
Special fire-fighting procedures : N/A
Unusual fire/explosion hazards : N/A
Hazardous thermal decomp. Products : In the heat of fire, the product may produce fumes containing copper
Protection of fire fighters : N/A

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : N/A
Environmental precautions : N/A
Methods for cleaning up : N/A

7. HANDLING AND STORAGE

- Handling and Storage : All employees who handle these products should be trained to handle them safely. Use in a well-ventilated location. Avoid breathing fumes generated by these products during operations. Packages of these products must be properly labeled. Store containers in a cool, dry location. Store away from incompatible materials (see Section 10, Stability and Reactivity).
Storage : For prolonged storage at temperatures of 60 °C and above, keep rust-free tanks and exclude oxygen by use of nitrogen blanket. Heating systems which generate localised hot spots should never be used.
Packaging materials : Mild steel or plastic containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering measures : Local exhaust recommended.
Hygienic measures : When using do not eat, drink or smoke. Wash hands after working with the substance.
Personal protective equipment
Respiratory system : -
Skin and body : If there is danger of splashing, wear: overall or apron.
Hands : PVC or rubber gloves.
Eyes : Safety goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

The following information is for copper, the main component of this product:

- Physical state : powder

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Colour	: copper
Odour	: N/A
Specific gravity	: depending on alloy composition, around 9,0 g/cm ³
pH	: N/A
Solubility in water	: Not soluble in water
Vapour pressure	: N/A
Flash point	: N/A
Autoignition temp.	: N/A
Melting Point	: 1080 °C
Viscosity	: -

10. STABILITY AND REACTIVITY

Stability	: Stable.
Hazardous decomposition products	: Thermal decomposition may produce copper and oxides.
Materials to avoid	: Strong acids, oxidizers, halogens, and acid chlorides.

11. TOXICOLOGICAL INFORMATION

Presented below are human toxicological data available for the components of these products present in concentration greater than 1%. Other data for animals are available for the components of these products, but are not presented in this Material Safety Data Sheet.

COPPER: TDLo_(oral, human) = 120 g/kg;

12. ECOLOGICAL INFORMATION

Environmental stability	: The components of these products occur naturally in the environment and are expected to persist in the environment for an extended period of time. The components will react with water and air to form a variety of metal oxide compounds.
Bio-accumulation	: These products are not expected to cause adverse effects on aquatic life.

13. DISPOSAL CONSIDERATIONS

Methods of disposal	: N/A
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14. TRANSPORT INFORMATION

UN number : -	
<u>Land/Railway</u>	
ADR/RID class	: -
ADR/RID item number	: -
<u>Sea</u>	
IMDG class	: -

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IMDG page number : -

Air

IATA.DGR class : -

15.REGULATORY INFORMATION

EC Regulations

Label name : Copper Powder

Hazar symbols : -

Risk phrases : -

Safety phrases : -

16.OTHER INFORMATION

This document is prepared according to 91 / 155 / EEC. The above information is believed to be correct but does purport to be all inclusive and shall be used only as a guide. Sentes-BIR shall not be held liable for any damage resulting from handling or from contact with the above product. For internal use only.