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MATERIAL SAFETY DATA SHEET

(MgCuZn Ferrite Core, page 1)

Section 1 Product Identification / Company Information

MgCuZn Fired Core
Trade Name(Used on Label): part numbers beginning with"28/HP/HM/MM/MP/WLB/WCB/WCR"
Compound Name: Iron Magnesium Zinc Copper oxide
Synonyms: Magnesium Copper Zinc Ferrite

Section 2 Composition / Information on Ingredients

Product is a solid solution as a formed article, consisting of the following:

Chemical Formula: $(\text{MgO})_{1-(x-y-z)}(\text{ZnO})_x(\text{CuO})_y\text{Fe}_2\text{O}_3$

Material	CAS Number	% weight
Iron Oxide	1309-37-1	72
Zinc Oxide	1314-13-2	15
Magnesium Dioxide	1309-48-4	6
Cupric Oxide	1317-38-0	6
Manganese Dioxide	1313-13-9	1

Section 3 Hazards identification information

Non-hazardous products

Hazard Ratinas	
Health	1
Flammability	0
Reactivitv	1

Section 4 First Aid Procedures

- Eye Contact:** For ferrite particles or powder, flush eyes with copious amounts of water for at least 15 minutes. Consult a physician if irritation persists.
- Skin Contact:** For ferrite particles or powder, wash affected area with plenty of soap and water. Consult a physician if irritation or redness persist.washing clothes before reuse.
- Inhalation:** Not an inhalation hazard.
- Ingestion:** Ingestion is unlikely, but if a large amount is consumed, give 2-4 cupfuls of milk or water. Consult a physician.

Section 5 Fire-fighting measures

Flash Point: N/A Flammable Limits: LFL: N/A Autoignition Temp: N/A
Method Used: N/A UFL: N/A

Extinguishing Media: Material is non-combustible. Use extinguishing media appropriate for surrounding fire conditions.

Fire and Exploslon Hazards: None

Fire Fighting Procedures: No special precautions for solid article component.

Combustion & Decomposition Products: In the presence of a reducing agent, ferrite may be reduced to metals at temperatures in excess of 1000 °C.
At temperatures above 60 °C, Fe_3O_4 may oxidize to Fe_2O_3 , which generates heat.

MATERIAL SAFETY DATA SHEET

(MgCuZn Ferrite Core, page 2)

Section 6 Accidental release/spill Disposal Procedures

Steps to be Taken in the Event of a Spill or Discharge:

Sweep or vacuum up spilled material and place in a suitable container for disposal.

Disposal Considerations: Material is 100% recyclable. Waste should be handled by these means whenever possible. However, ferrite products can be disposed of as a non-hazardous solid waste in accordance with local, state, and federal regulations.

Section 7 Safe Handling and Storage measures

Storage Requirements: Do not store ferrite products at temperatures above 60 °C (140 °F).
Store away from incompatible materials (see Section 5).

Personal Hygiene: Wash thoroughly after handling. Observe good industrial hygiene practices.

Other Precautions: None

Section 8 Exposure Control Measures / Personal Protection

Ventilation Requirements: No special ventilation requirements.

Respiratory Protection: Product, as sold, does not require special respiratory protection.

Protective Gloves: Wear if skin contact is probable, and if skin is sensitive. Protective barrier creams may also be used.

Eye Protection: None required.

Other Protective Clothing or Equipment: None required.

Section 9 Physical and Chemical Characteristics

Appearance and Odor: Black ceramic article.
No apparent odor.

Specific Gravity (H₂O=1): 4.80 - 5.10

Physical State: Solid

Evaporation Rate (Bu Ac=1): N/A

Boiling Point: N/A

Vapor Pressure: N/A

Melting Point: 1500 °C

Vapor Density: N/A

Solubility in Water: Negligible

% Volatile by Volume: 0

Reactivity in Water: Negligible

pH: N/A

Section 10 Stability and Reactivity Data

Stability: Stable

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None

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Incompatibility (Materials to avoid): Concentrated acids, strong oxidizing agents, peroxides.

Section 11 Toxicological information

Carcinogenicity: This product, as sold, produces no cancer hazards.

MATERIAL SAFETY DATA SHEET

(MgCuZn Ferrite Core, page 3)

Section 12 Ecological Information

Primary Routes of Entry: Ingestion, skin contact

Effects of Overexposure

Eye Contact: In solid article form, not anticipated to be a hazard.

Skin Contact: In solid article form, not anticipated to be a hazard.

Inhalation: In solid article form, not expected to be an inhalation hazard.

Ingestion: Non-toxic. However, ingestion may result in gastrointestinal irritation with nausea, vomiting, and/or diarrhea.

Chronic Effects: No long-term effects anticipated.

Conditions Aggravated by Exposure: None.

Section 13 Waste disposal measures

Disposal Considerations: Material is 100% recyclable. Waste should be handled by these means whenever possible. However, ferrite products can be disposed of as a non-hazardous solid waste in accordance with local, state, and federal regulations.

Section 14 Transportation Data

Domestic (D.O.T.): Not regulated

International (I.M.O.): Information not available.

Air (I.C.A.O.): Information not available.

U.S. Customs Harmonization Number: Information not available.

Section 15 Regulation information

The safety management regulations about dangerous chemical (in February 2002 issued by the State Council)
Classification and signs of Commonly used dangerous chemicals(GB13690-1992)
Classification and code name of dangerous goods (GB6944-2005)
Provisions of making illumination book about Chemical Safety Data Sheet(GB16483-2000)

Special regulations information

No special regulations

According to the European regulations to classify

No data

Section 16 Other information

This information of Safety Data Sheet represents our existing data and our most appropriate method to deal with this product in routine conditions. You must responsible by yourself, if the user fails to comply with this security technology guidance manual to use this product, or this product is mixed with other product, or use this product in any other approach.

The information contained in this MSDS is believed to be accurate and represents the best information currently available. The manufacturer extends no warranties, makes no representation, and assumes no responsibility as to the accuracy or suitability of this information for the purchaser's intended purposes.

This document has been compiled with the combined efforts of the Environmental Dept., the Engineering Dept. and the Product Development Team.

Siemens Mir
Engineering Manager

2008-12-7
Date