

Material Safety Data Sheet

1. Product and Company Identification

PRODUCT NAME:	Mn-Zn ferrite cores
COMPANY:	EMICORE CORPORATION
ADDRESS:	39 Yulin Road, Sanzao Town, Jinwan District, Zhuhai City, Guangdong Province, P.R.China
TEL.:	+86-0756-7515808
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2. Composition, Information on Ingredients

Chemical Name	% w/w	CAS No.
Manganese-Zinc Ferrite	100%	12645-49-7

3. Hazard Identification

HEALTH HAZARDS AND REACTIONS:	None
ENVIRONMENTAL IMPACT:	Solid Waste
PHYSICAL AND CHEMICAL HAZARDS:	Solid State, Heating will produce metal vapor
SPECIFIC HAZARDS:	None
CARDINAL SYMPTOMS:	None
HAZARD CLASSIFICATION:	None

4. First Aid Measures

SKIN EXPOSURE: If dusts of this product irritate the skin, immediately begin decontamination with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Victim must seek medical attention if irritation persists.
EYE EXPOSURE: If shards of the product enter the eyes, bandage the eye and immediately seek medical attention. If dusts of this product enter the eyes and irritation develops, flush the eyes with water for 15 minutes and immediately seek medical attention.
INHALATION: If chemical is inhaled, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Remove or cover gross contamination to avoid exposure to rescuers.
INGESTION: If chemical is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, do not induce vomiting. Victim should drink milk, egg whites, or large quantities of water. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow.

5. Fire Fighting Measures

Suitable Extinguishing Media:	Water, Foam, Carbon Dioxide, Dry Chemical
Special Hazards in Fire:	This ceramic may shatter if instantly exposed to extremely high temperatures. Sharp edges and shards can pose a physical hazard to fire-fighters.
Special Fire-Fighting Procedures:	Incipient fire responders should wear eye protection. Structural fire fighters must wear Self-Contained Breathing Apparatus and full protective equipment.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:	Don't be close to pollution district before cleaning completely. Pollution cleaning should be done by trained person. Wear personal protect equipment.
ENVIRONMENTAL PRECAUTIONS:	Good ventilation. Put out or move out all of fire sources. Submit concerned report to government environment department or relative department.
METHODS FOR CLEANING:	Take the powder into suitable container carefully. Absorb by vacuum and don't raise dust. Wash the leak gas by water.

7. Handling and Storage

HANDLING:	Use careful to avoid raising dust.
STORAGE:	Storage in dry and cool with good ventilation. Keep far away from something not hold each other

8. Exposure Controls, Personal Protection

ENGINEERING MEASURES:
Control Parameters:
· TWA/STEL/ CEILING: None
· BEIs: None
Personal Protection Equipment:
· Respiration: Wear mask against dust.
· Hand: Seepage-prevent glove.

<ul style="list-style-type: none"> * Eye: Chemical safety protective goggles. * Skin & Body: Job boots and pinafore.
HYGIENE MEASURES: No discarded.

9. Physical and Chemical Properties

State of Substance: Stable	Appearance: Solid
Color: Black	Smell: None
pH Value: N/A	Boiling Point: N/A
Self-Igniting Temperature: N/A	Explosion Limits: N/A
Vapor Pressure: N/A	Vapor Density: N/A
Density: 4.6-5.1g/cm ³	Melting point or range: Approximately 1500°C

10. Stability and Reactivity

STABILITY: Stable
POSSIBLE HAZARD REACTION UNDER SPECIAL CONDITIONS: This product may produce hydrogen gas if exposed to strong acids.
CONDITIONS TO AVOID: Extreme temperatures and moisture.
MATERIALS TO AVOID: Strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS: N/A

11. Toxicological Information

ACUTE TOXICITY: None
LOCAL REACTIONS: None
SENSITIVITY: None
CHRONIC OR LONG TERM TOXICITY: None
SPECIAL REACTIONS: None

12. Ecological information

POSSIBLE ENVIRONMENTAL IMPACT/ENVIRONMENTAL RUN-OFFS: There is currently no information on this product's impact on aquatic plants and animals if this material is released into the environment. However, as with all chemical products, all work practices should be aimed at minimizing environmental contamination.

13. Disposal considerations

Disposal Methods: Recovery or crushed and buried

14. Transport information

INTERNATIONAL TRANSPORTATION REGULATIONS: This substance is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations 56th Edition.
UN REFERENCE No.: N/A
DOMESTIC TRANSPORTATION REGULATIONS: Traffic and safety Regulation.
SPECIAL TRANSPORTATION METHODS AND PRECAUTIONS: Fragile, handle with care.

15. Regulatory information

APPLICABLE REGULATION: Environmental Protection Law of the People's Republic of China, Reach, RoHS.

16. Other information

Ref. Document	None
Filled company	Company: EMICORE CORPORATION Address/Tel.: 39 Yulin Road, Sanzao Town, Jinwan District, Zhuhai City, Guangdong Province, P.R.China +86-0756-7515808
Made By	Title: R&D Engineer Name: Wei Xiaodong
Date Prepared	2017 年 2 月 22 日