10 Vansco Road Toronto, Ontario Canada 416-251-2831

# **Material Safety Data Sheet**

IDENTITY (As Used on Label and List)	Note: Blank spaces are not permitted. If any item is
Manganese Zinc Ferrite	not applicable, or no information is available, the
Sintered Manganese Zinc Ferrite Powder	space must be marked to indicate that.

#### Section I

	Emergency Telephone Number (416) 251-2831
Address (Number, Street, City, State, and ZIP Code)	
	(416) 251-6790
	Date Prepared 10 June 1997
	Signature of Preparer (optional)

#### Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical	OSHA		Other Limits	%(option
Identity; Common Name(s))	PEL	ACGIH TLV	Recommended	al)

Sintered Manganese Zinc Ferrite (MnZn Ferrite) is a material consisting of sintered oxides of the following:

(10 – 90 %) Major: Iron (Fe), Manganese (Mn) and Zinc (Zn)

(<5 wt. %) Minor: Silicon (Si), Zirconium (Zr), Titanium (Ti) and trace level impurities (PPM)

### Section III - Physical/Chemical Characteristics

Boiling Point	None	Specific Gravity ( $H_2O = 1$ )	4.8gm / cc
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water Nil			
Appearance and Odor - Black odo	rless solid, (harc	1)	

### Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) - N / A	Flammable Limits – N/A	LEL	UEL
Extinguishing Media – Carbon Dioxide, Water, Dry	Chemical, Foam, Halon		
Special Fire Fighting Procedures -			
Unusual Fire and Explosion Hazards - Avoid redu	cing agent when heating o	over 1000 °C	

### Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	Х	
Incompatibility (A	laterials to Avc	oid)	
Hazardous Deco	mposition or By	/produ	ucts
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	Х	

### Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? X	Skin?	Ingestion? X
Health Hazards (Acu	te and Chronic) – If grou	nd and a dust results, mainta	ain at TLV 15mg / m3.
Carcinogenicity:	NTP? – None Reported	IARC Monographs? – None Reported	OSHA Regulated? – None Reported
Signs and Symptoms	s of Exposure - Unknown		
Medical Conditions Generally Aggravate	d by Exposure - Unknow	n	
Emergency and First air.	Aid Procedures – Wash	dust / powder from skin, pre	vent ingestion, move to fresh

#### Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled – Using recommended PPE, sweep up and discard. Does not present any unusual hazard.

Waste Disposal Method – To be performed in compliance with all Local, State and Federal regulations.

Precautions to Be taken in Handling and Storing – In accordance with good industrial practice, handle with care.

Other Precautions - None

#### Section VIII - Control Measures

Respiratory Protection (Specify Type) – A half mask respirator approved for dust and mist protection is recommended.		
Ventilation	Local Exhaust - Yes	Special
	Mechanical <i>(General)</i> - Yes	Other

	Protective Gloves – PVC coated is recommended Eye Protection – Safety glasses or splash shield.
	Other Protective Clothing or Equipment – Eye Bath recommended
- 18	Work/Hygienic Practices - In accordance with good industrial practice, wash thoroughly after handling and before eating.