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[SECTION 1]: PRODUCT AND COMPANY IDENTIFICATION

1.1.Product Details

Product Name: Magnetic particles

Trade Name: EMG1500

Chemical Name: Proprietary product

Chemical Formula: Mixture

Molar Mass: N/A

Chemical Family: Dry iron oxide particles with surfactant

Manufacturer's Code: None

1.2.Manufacturer

Manufacturer's Name: Ferrotec Corporation

Importers / distributor's Name & Address: 1-4-14 Kyobashi Chuo-ku, Tokyo, Japan

Telephone Number: +81-3-3281-8808

Emergency Telephone number: +1 (800) 424-9300 / CHEMTREC (US only) +1 (703) 527-3887 / CHEMTREC (International)

Other product safety information: +1 (603) 883-9800 / Ferrotec (USA) Corporation (NH)

+81-479-73-6752 / Ferrotec Corp. Ferrofluid Dept. (JAPAN)

+49-7022-9270-0 / Ferrotec GmbH (Germany)

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[SECTION 2]: COMPOSITION / INFORMATION ON INGREDIENTS

The precise composition of this mixture is proprietary information.

A more complete disclosure will be provided to a physician or a nurse in the event of a medical emergency. All components are registered each in Chemical Abstracts Service.

Composition		Proportion %(by weight)	Exposure Limit	Toxicity Data
Α	Iron oxide	71.8 - 79.2	Not	Not
В	Surfactant	20.8 - 28.2	applicable	applicable

(SECTION 3): HAZARDS IDENTIFICATION

Most important hazards: None

Potential health effects

Ingestion: No significant health hazards identified.

Eye contact: No significant health hazards identified.

Skin contact: No significant health hazards identified.

Inhalation: Inhalation of oil mist or vapors at elevated temperatures may cause respiratory

irritation.

[SECTION 4]: FIRST AID MEASURES

Ingestion: Consult a physician for treatment.

Eye contact: Flush with water and consult a physician for treatment.

Skin contact: Wash with soap and water.

Inhalation: Move affected person to fresh air and consult a physician for treatment.

Notes to physician: A more complete disclosure will be provided to a physician in the event of

a medical emergency.

(SECTION 5): FIRE FIGHTING MEASURES

Flammable properties

Flash point: Not applicable

Flammable limits: **Not applicable**Extinguishing Media: **Not applicable**Fire fighting instruction: **Not applicable**

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[SECTION 6]: ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Wash surface with soap and water.

[SECTION 7]: HANDLING AND STORAGE

Handling: Ordinary care in handing chemical substances. Wash hands after handling.

Storage: Keep in a dark and a cool place.

Other precautions: Avoid contamination of tobacco products. Users should be aware that a very small percentage of the population may display unexpected allergic skin reactions to otherwise innocuous industrial chemicals and raw material.

[SECTION 8]: EXPOSURE CONTROLS / PERSONAL PROTECTION

a. Exposure Limit: No experience on over exposure.

b. Engineering measurement: N/A

c. Personal protection

Respiratory protection: Not required.

Ventilation: Not required.

Hand protection: Rubber or plastic gloves to prevent prolonged or repeated contacting with

skin.

Eye Protection: Safety glasses.

Other Protective Equipment: Not required.

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[SECTION 9]: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown and / or black particles

Odor: Mild faint
Solubility: Stable
Boiling Point(°C): N/A
Melting Point (°C): N/A

Vapor Pressure (kPa at 20 °C): N/A

Percentage Volatiles: **None**Evaporation Rate : **N/A**Vapor Density (Air=1): **N/A**Density (g/cm³) : **No data**

Flash point: N/A

Auto ignition temperature: N/A

Flammable limit (%): N/A

Other properties if applicable: N/D

(SECTION 10): STABILITY AND REACTIVITY

Conditions to avoid: Pyrolysis

Stability: Stable at normal temperatures and pressure.

Material to avoid: Water soluble materials. i.e. acid or base.

Hazardous docomposition products: **None.** Hazardous polymerization: **will not occur**

[SECTION 11]: TOXICOLOGICAL INFORMATION

Toxicity Data: No data
Carcinogen city: No data
Reproductive Effect: No data
Effects of overexposure: No data

Chronic effects: **No data**Target organs: **No data**

Medical Conditions Generally Aggravated by exposure: No data

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(SECTION 12): ECOLOGICAL INFORMATION

Mobility: No data

Bioaccumulation: **No data**Biodegradability: **No data**Aquatic Toxicity: **No data**

[SECTION 13]: DISPOSAL CONSIDERATIONS

Comply with all federal, state and local regulations.

Do not dump this product into sewers, on the ground or into any body of water.

[SECTION 14]: TRANSPORT INFORMATION

This product is not regulated as the United Nations Dangerous Goods.

Hazard Class: N/A

UN No: N/A

Packing Group: N/A

[SECTION 15]: REGULATORY INFORMATION

All components are in compliance with Pollutant Release and Transfer Register of Japan.

Composition		CAS No.	TSCA	EINECS	OSHA
Α	Iron oxide	Trade	Registered	Registered	
		secret			Not
В	Surfactant	Trade	Registered	Not	listed
		secret		registered	

These components do not contain any chemical subject to the reporting requirements of Section 313 of Title of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372.

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[SECTION 16]: OTHER INFORMATION

We believe the statement, technical information and recommendations contained here in are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

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