

MATERIAL SAFETY DATA SHEET

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**【SECTION 1】: PRODUCT AND COMPANY IDENTIFICATION**

1.1. Product Details

Product Name: Magnetic particles

Trade Name: EMG1400

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) 472-6800 / Ferrotec (USA) Corporation (NH)

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

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

**【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
A Iron oxide	77.0 - 83.0	Not applicable	Not applicable
B Surfactant	17.0 - 23.0	Not applicable	Not 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 handling 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/cm<sup>3</sup>) : 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, ie. acid or base.  
Hazardous decomposition 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
A Iron oxide	Trade secret	Registered	Registered	Not listed
B Surfactant	Trade secret	Registered	Not registered	listed

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.

This material is not sold for use in products for which prolonged contact with skin or implantation in the human body is intended. We do not recommend this material as safe and effective for such uses and assumes no liability for any such use.