

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: FEsphere SD 20, FEsphere SD 50

Company: FEWM CO., LTD.

Address: RM#408, 6, Heungdeok 2-ro 105beon-gil, Giheung-gu, Yongin-si, Gyeonggi, KOREA

Telephone: +82-31-221-6782

Fax: +82-31-221-6783

2. Hazards Identification

NFPA RATING: Health (1), Flammability (0) Reactivity (0)

Emergency Overview

Attention:

This material is not considered hazardous by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Routes of Exposure:

Inhalation

Potential Health Effects

Ingestion:

No adverse effects are expected under normal conditions of use.

Skin:

No adverse effects are expected under normal conditions of use.

Inhalation:

No adverse effects are expected under normal conditions of use.

Eyes:

No adverse effects are expected under normal conditions of use.

Medical Conditions Aggravated:

Respiratory disorder

Subchronic (Target Organ):

Not known.

Chronic Effects/Carcinogenicity:

This product or one of its ingredients present at 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Percent (%)
Polymethylsilsesquioxane	68554-70-1	70.00
Silica	7631-86-9	30.00

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. If victim is conscious, give 1-3 glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if irritation persists.

Skin: Wash off with soap and water. Obtain medical attention if symptoms persist.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Note to Physician: Treatment is symptomatic and supportive.

5. FIRE-FIGHTING MEASURES

Flash Point

Method: Not applicable

Ignition Temperature: Not applicable

Flammable Limits in Air-Lower (%): Not applicable

Flammable Limits in Air-Upper (%): Not applicable

Sensitivity to Mechanical Impact: No

Sensitivity to Static Discharge: Sensitivity to static discharge is not expected.

Extinguishing Media: All standard extinguishing agents are suitable.

Special Fire Fighting Procedures: Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Action to Be Taken If Material Is Released or Spilled

Wipe, scrape or soak up in an inert material and put in a container for disposal. Wear proper protective equipment as specified in the protective equipment section. Increase area ventilation.

7. HANDLING AND STORAGE

Storage: Keep container closed. Store away from heat, sources of ignition, and incompatibles.

Precautions to Be Taken in Handling and Storage

Avoid contact with skin and eyes. Use only in well-ventilated areas. Keep away from children. May generate formaldehyde at temperatures greater than 150°C (300°F). See Section 10 of MSDS for details.

Shelf Life: 2 years from the date of receipt under proper storage condition

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Eyewash stations; Showers; Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations

Respiratory Protection: If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for nonroutine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29 CFR 1910.134).

Protective Gloves: Impermeable or chemical resistant gloves.

Eye and Face Protection: Safety glasses with side-shields conforming to EN 166

Other Protective Equipment: Wear suitable protective clothing and eye/face protection.

Exposure Guidelines: Absence of values indicates none found

PEL - OSHA permissible exposure Limit; TLV - ACGIH threshold limit value; TWA - Time weighted Average. OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point - C & F:	Not applicable
Vapor Pressure (20 C) (MM HG):	Not applicable
Vapor Density (Air=1):	Negligible
Freezing Point:	>999 °C; 1,830.20 °F
Melting Point:	>999 °C; 1,830.20 °F
Physical State:	Solid

Odor:	None
Color:	White
Evaporation Rate (Butyl Acetate=1):	Not applicable
Specific Gravity (Water=1):	ca. 1.32
Density:	1.3 g/cm ³
Acid/Alkalinity (MEQ/G):	Not applicable
pH:	5~9(10% H ₂ O(1)+EtOH(1) slurry)
Volatile Organic Content (VOL):	
Solubility in Water (20 C):	Immiscible
Solubility in Organic Solvent (STATE Solvent):	Insoluble in water
VOC EXCL. H₂O & Exempts (G/L):	Not applicable

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will not occur
Hazardous Thermal Decomposition/Combustion Products:	
Carbon monoxide; Carbon dioxide (CO ₂); formaldehyde; Silicon dioxide.; This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 °F (150 °C) and above in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.	
Incompatibility:	None known.
Conditions to Avoid:	None known.

11. TOXICOLOGICAL INFORMATION

Acute Oral:	LD50; Species: rabbit; > 6,000 mg/kg
Acute Dermal:	Remarks: No data available
Acute Inhalation:	Remarks: Unknown
Other	
Sensitization:	Test Type: Magnusson-Kligmann; Species: Guinea Pig; Result: Negative
Skin Irritation:	Species: Rabbit; No skin irritation
Eye Irritation:	Species: Rabbit ; No eye irritation
Mutagenicity:	Salmonella/Microsome-test: No indication of mutagenic effects.

12. ECOLOGICAL INFORMATION

Ecotoxicology:	Ecotoxicological data for this product is not available.
Chemical Fate:	No data available
Distribution:	No data available

13. DISPOSAL CONSIDERATION

Disposal Method: Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

Further Information: This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

15. REGULATORY INFORMATION

Inventories

Canada DSL Inventory: y (positive listing)

Japan Inventory of Existing & New Chemical Substances (ENCS): y (positive listing)

Korea Existing Chemicals Inventory (KECI): y (positive listing)

China Inventory of Existing Chemical Substances: y (positive listing)

Australia Inventory of Chemical Substances (AICS): y (positive listing)

Philippines Inventory of Chemicals and Chemical Substances (PICCS): y (positive listing)

TSCA list: y (positive listing) EU list of existing chemical substances: y (positive listing)

Canada NDSL Inventory: n (negative listing)

US Regulatory Information

CERCLA:

CLEAN AIR ACT:

CLEAN WATER ACT:

SARA SECTION 302:

SARA (311,312) HAZARD CLASS: No SARA Hazards

SARA (313) CHEMICALS

Canadian Regulatory Information

WHMIS HAZARD CLASS: Non-controlled

Other

SCHDLE B/HTSUS:

ECCN:

CALIFORNIA PROPOSITION 65: This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Caution:

The information contained herein relates only to this product or material and may not be valid

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Prepared by: Environmental Health & Safety
Phone Number: +82-31-221-6782 (KOREA)