

## Carbon-coated magnetic-particle suspension

Version 1.0

Revision Date 6/25/2019

Print Date: 6/28/19

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### Section 1. Identification

Product Name: Carbon-coated magnetic-particle suspension

#### Manufacturer or suppliers' details

Company: Life Magnetics, Inc.

Address: 440 Burroughs Suite 520, Detroit MI 48202

Phone: (734)673-8405

E-mail: [info@magnetics.life](mailto:info@magnetics.life)

#### Recommended use of the chemicals and restrictions on use

Recommended use: Laboratory chemicals

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### Section 2. Hazards Identification

#### Classification of the substance or mixture

Not a hazardous substance or mixture

#### GHS Label Elements, including precautionary statements

Not a hazardous substance or mixture

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### SECTION 3. Composition/Information on Ingredients

Substance/Mixture:	Mixture
Substance Name:	Carbon-coated magnetic-particle suspension
Formula	$C_{5-15}Fe_{40-70}Co_{20-40}$ at% suspended in water

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### SECTION 4. First Aid Measures

General Advice:	If skin contact occurs, wash off with soap and water. If eye contact occurs, flush with water.
If Inhaled:	Move to fresh air, if not breathing give artificial respiration.
In case of skin contact:	Wash off with soap and water.
In case of eye contact:	Flush eye with water.
If swallowed:	Rinse mouth with water.

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Most important symptoms and effects, both acute and delayed:

Most important known symptoms and effects are described in the labeling, see section 2.

Notes to physician:

No information available.

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**SECTION 5. Fire Fighting Measures**

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards during fire-fighting: No hazards during fire-fighting.

Hazardous combustion products: No combustion products.

Specific extinguishing methods: In the event of fire do not breath fumes.

Special protective equipment: Wear self-contained breathing apparatus for fire-fighting if necessary.

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**SECTION 6. Accidental Release Measures**

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

Environmental precautions: No specific environmental precautions

Methods and materials for containment and cleaning up: Keep in suitable closed container for disposal.

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**SECTION 7. Handling and Storage**

Advice on protection against fire and explosion: Normal measures for preventative fire protection.

Advice on safe handling: Wear appropriate personal protective equipment

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place.

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**SECTION 8. Exposure Controls/Personal Protection****Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Hazardous components without workplace control parameters**

Chemical Name	CAS-No.	Concentration (% w/w)
Guanidinium Thiocyanate	593-84-0	>=15 - < 40

**Personal Protective Equipment**

Hand Protection Material: Protective gloves.

Remarks: The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye Protection: Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems. Do not wear contact lenses. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and Body Protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals.

Hygiene Measures: Keep away from food and drink. Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke.

**SECTION 9. Physical and Chemical Properties**

Appearance: liquid

Color: black

Odor: No data available

Odor threshold: No data available

pH: 7

Melting point/range: No data available

Boiling point/boiling range: No data available

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Flash point	No data available	
Evaporation rate	No data available	
Burning rate	No data available	
Upper explosion limit	No data available	
Lower explosion limit	No data available	
Vapor pressure	No data available	
Relative vapor density	No data available	
Relative density	No data available	
Density	1.04 g/cm <sup>3</sup> (at 25 °C)	
Solubility(ies)		
- Water solubility	No data available	
- Solubility in other solvents	No data available	
Partition coefficient: n-octanol/water	No data available	
Autoignition temperature:	No data available	
Decomposition temperature:	No data available	
Viscosity:		
- Viscosity, dynamic	No data available	
- Viscosity, kinematic	No data available	
Explosive properties:	No data available	
Oxidizing properties:	No data available	

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**SECTION 10. Stability and Reactivity**

Reactivity:	No decomposition if stored and applied as directed.
Chemical stability:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions:	Stable under recommended storage conditions.
Conditions to avoid:	No data available
Incompatible materials:	No data available
Hazardous decomposition products:	No decomposition if stored and applied as directed.

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**SECTION 11. Toxicological Information**

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### Acute toxicity

May be harmful if swallowed.

### Product:

Acute oral toxicity: No data available

Acute inhalation toxicity: No data available

Acute dermal toxicity: No data available

### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

### Respiratory or skin sensitization

No data available

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

**IARC:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified based on available information.

### STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Not classified based on available information.

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### Aspiration toxicity

Not classified based on available information.

### Further information

To the best of our knowledge the chemical physical and toxicological properties have not been thoroughly investigated.

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## SECTION 12. Ecological Information

### Ecotoxicity

#### Product:

Toxicity to fish: No data available

Toxicity to algae: No data available

Toxicity to bacteria: No data available

### Bioaccumulative potential

#### Product:

Bioaccumulation: No data available

Mobility in soil: No data available

### Other adverse effects:

#### Product:

Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone - CAA Section 602 Class I  
Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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## SECTION 13: Disposal Considerations

### Disposal methods

Offer surplus and non-recyclable solutions to a licensed disposal company.

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**SECTION 14: Transport Information**

**DOT(US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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