# SAFETY DATA SHEET

**Print date: Mar 01, 2022** 

# 1. Products and Company Identification

**Identification of the product:** Silica Nanospheres, 100 nm - 1000 nm, in

Powder Form

Chemical family: Metal composite

**Use of the substance/preparation:** For laboratory research purposes

**Supplier:** Alpha Nanotech Inc.

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### 2. Hazards Identification

**Emergency Overview WHMIS Classification** 

Not rated

Not a hazardous substance or mixture

### **HMIS Classification**

Health hazard: 0 Flammability: 0 Physical hazards: 0

# **Potential Health Effects**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.Skin May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** Cause eye irritation.

**Ingestion** May be harmful if swallowed.

## 3. Composition/Information on Ingredients

Synonyms

Silicon dioxide nanoparticles, Colloidal silicon dioxide, Amorphous silica

No components need to be disclosed according to the applicable regulations.

#### 4. First aid Measures

#### After inhalation:

Move the person into fresh air. When necessary, give artificial respiration with oxygen.

### **After skin contact:**

Wash skin with soap and plenty of water.

### After ingestion:

Make victim drink plenty of water.

### After eve contact:

Rinse out with plenty of water with the eyelid held wide open.

### 5. Fire-fighting measures

### **Conditions of flammability**

Not flammable or combustible

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **Special protective equipment for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### Hazards combustion productions from the substance

No data available

### Explosion data - sensitivity to mechanical impact

No data available

## **Explosion data - sensitivity to static discharge**

No data available

### **6. Accidental Release Measures**

#### Personal precautionary measures

Use personal protective equipment. Avoid dust formation.

### **Environmental precautions**

No special environmental precautions required.

### Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

# 7. Handling and Storage

# Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

# **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Do not freeze.

# 8. Exposure controls/personal protection

Respiratory protection	Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection	Handle with gloves. The selected protective gloves have to satisfy the specification of EU Directive 89/686/EEC and the standard EN 374 derived from it. Wash and dry hands
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Skin and body protection	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# 9. Physical and chemical properties

No data available	
No data available	
1.8~2.2 g/cm <sup>3</sup>	
No data available	
	No data available 1.8~2.2 g/cm³ No data available

# 10. Stability and reactivity

## **Chemical stability**

Stable under recommended storage conditions

# Possibility of hazardous reactions

No data available

### **Conditions to avoid**

No data available

## Materials to avoid

Strong oxidizing agents

# **Hazardous decomposition products**

Other decomposition products - No data available

Hazardous decomposition products formed under fire conditions. - No data available

# 11. Toxicological information

# **Acute toxicity**

### Oral LD50

No data available

#### **Inhalation LC50**

No data available

#### **Dermal LD50**

No data available

# Other information on acute 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

### Carcinogenicity

### **IARC**

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans

#### **ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

# Reproductive toxicity

No data available

### **Teratogenicity**

No data available

### Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

### Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

### **Aspiration hazard**

No data available

### Potential health effects

#### Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

### Ingestion

May be harmful if swallowed.

#### Skin

May be harmful if absorbed through skin. May cause skin irritation.

### Eyes

May cause eye irritation.

## **Synergistic effects**

No data available

### **Additional Information**

**RTECS** 

Not available

# 12. Ecological information:

# **Toxicity**

No data available

# Persistence and degradability

No data available

## **Bioaccumulative potential**

No data available

# Mobility in soil

No data available

### PBT and vPvB assessment

No data available

### Other adverse effects

No data available

# 13. Disposal considerations

### **Product**

Contact a licensed professional waste disposal service to dispose this material.

# Contaminated packaging

Dispose of as unused product

## 14. Transport information

Road transport:	Not dangerous goods
Sea transport:	Not dangerous goods
Air transport:	Not dangerous goods

# 15. Regulatory information

### **WHMIS Classification**

Not Rated

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### 16. Other information

Alpha Nanotech Inc. provides the information contained herein in good faith and makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. shall not be held liable for any damage resulting from handling or from contact with the above product.