



Xi'an Ruixi Biological Technology Co.,Ltd  
Xi'an city, Shaanxi Province, China  
Web: <http://www.ruixibiotech.com>  
Tel: 0086 29 86354885  
E-mail: [Sales@ruixibiotech.com](mailto:Sales@ruixibiotech.com)

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## Materials Safety Data Sheet

### 1. Product Information

Product Name: PEI coated upconversion nanoparticles  
Chemical Name: Polyethylenimine coated upconversion nanoparticles  
Catalog Number: R-1-Z006  
Purity: >95%

### 2. Physical Data

Boiling Point: Not determined  
Solubility: Organic solvents  
Purity: 90%-97%  
Appearance: N/A

### 3. Fire and Explosion Data

Flash point: Not determined  
Flammability: No fire or explosion hazard known  
Autoignition temperature: Not determined  
Explosion limits: None

### 4. Hazards Identification

Emergency overview: No particular hazard associated with this compound  
Health Hazard: None  
Eye Hazard: None  
Skin Hazard: None  
Inhalation: Not determined  
Ingestion: Not determined  
Target Organs: Not determined  
Chronic health effects: Unknown

### 5. Storage Procedures

Storage at 2-8°C or -20°C.

### 6. Spill or Leak Procedures

The material can be collected by wet cloth or gently swept into a suitable container for

proper disposal.

## **7. Handling**

Wear appropriate safety apparel when handling all materials.

Avoid contact with eyes and skin.

Do not directly breathe in vapors/gas.

Ensure access to a safety shower and eye bath.

Wash thoroughly after handling.

## **8. First Aid**

Oral contact: If swallowed, rinse your mouth in time

Skin contact: Rinse with plenty of soapy water

Eye contact: Flush eyes with plenty of water for a few minutes

Inhalation: Move person into fresh air

In short, if you feel unwell, please seek medical attention immediately.

## **9. Other information**

This product is for research use only, Not for human or animal use.

**Non-hazardous Material, Approved For Air Transport.**