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# Materials Safety Data Sheet

## 1. Product Information

Product Name: PEG-NH<sub>2</sub> modified Upconversion Nanoparticles  
Chemical Name: PEG-Amine Upconverting Nanoparticles, absorbance 980 nm, emission 540 nm/650 nm, NaGdF<sub>4</sub>  
Catalog Number: R-UPN650  
PDI by GPC: <1.5

## 2. Physical Data

Boiling Point: Not determined  
Solubility: Not determined  
Purity: 90%-97%  
Appearance: White solution

## 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.**