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## Materials Safety Data Sheet

### 1. Product Information

Product Name: CY5-Black phosphorus nanoparticles (100nm)  
Chemical Name: CY5-Black phosphorus nanoparticles (100nm)  
Catalog Number: R-C-2821  
purity: N/A

### 2. Physical Data

Boiling Point: Not determined  
Solubility: N/A  
Purity: >90%  
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: -20°C, protected from light and moisture

### 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.**