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Materials Safety Data Sheet

1. Product Information

Product Name: PEG-BPQDs

Chemical Name: poly(ethylene glycol) black phosphorus quantum dots

Catalog Number: R-BP-003

Substitution by NMR: >95%

2. Physical Data

Boiling Point: Not determined

Solubility: Organic solvents

Purity: 90%-97%

Appearance: Off-white/brown solid or viscous liquid depends on molecular weight

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.