MATERIAL SAFETY DATA SHEET

CADMIUM SELENIUM/ ZINC SULFIDE CORE SHELL NANO PARTICLES
Stock No: NS6130-12-000581

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY
Product Name : Cadmium selenium/ Zinc sulfide Core/Shell Nanoparticles
Use : Research and Development
Address : Nanoshel LLC
3422 Old Capitol Suit 1305
Wilmington DE – 19808
United States
Emergency : +1.532.253.9878

2. COMPOSITION & INFORMATION ON INGREDIENTS
Chemical Characterisation : CdSe/ZnS
Hazardous Ingredients : Nil

3. HAZARD IDENTIFICATION
Toxicity : No Data Available
Eye Contact : Dust may cause irritation

4. FIRST AID MEASURES
Skin : Wash skin with soap and copious amounts of water
Eyes : Immediate and prolonged irritation treat with copious amounts of water.
Ingestion : Wash out mouth with water provided person is conscious.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

5. FIREFIGHTING MEASURES

Extinguishing Data: Water Spray
Unsuitable Extinguishing Data: Carbon Dioxide, Dry Chemical Powder, Polymer Foam

Unusual Firefighting Hazards: Capable of creating a dust explosion
Special Firefighting Procedures: Use normal procedures which include wearing self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear respirator, chemical safety goggles, rubber boots and gloves.

Precautions to the Environment: Sweep up, place in a bag and hold for waste disposal.

Cleanup Procedures: Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling Precautions: Chemical Safety Goggles. Compatible with Chemical-resistant Gloves

Storage: Store in a cool dry place.


8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Controls

Personal Protective Equipment

Respiratory: Self-contained breathing apparatus
Hand: Chemical-resistant Gloves
Eye: Avoid contact with eyes
Skin: Wash thoroughly after handling

9. PHYSICAL AND CHEMICAL PROPERTIES
**Appearance**
Form : Powder
Colour : N/A
Odour : No Odour

**Safety Related Information**
FlashPoint : N/A
Boiling Point : N/A
Melting Point : N/A
pH : N/A

10. **STABILITY AND REACTIVITY**
Stability : Completely Stable
Reactivity : Non Reactive/ Non Soluble

11. **TOXICOLOGICAL INFORMATION**
**Possible Health Effects**
Skin : No effect
Eyes : Irritation
Inhalation : No Chocking Hazard
Toxicity : Non-Toxic

12. **ECOLOGICAL IMPACT**
Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. No Negative Ecological Impact, Data not Available.

13. **WASTE DISPOSAL**
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator, equipped with an afterburner and scrubber

14. **TRANSPORT INFORMATION (UN ORNEK OLARAK VERİLMİŞTİR)**

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15. OTHER REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Cadmium selenium/ Zinc sulfide Core/Shell Nanoparticles

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada)

DSCL (EEC):
   R36- Irritating to eyes
   S2- Keep out of the reach of children
   S46- If swallowed, seek medical advice immediately & show container or label

HMIS (U.S.A.):
   Health Hazard: 1
   Fire Hazard: 0
   Reactivity: 0
   Personal Protection: E

National Fire Protection Association (U.S.A.):
   Health: 1
   Flammability: 0
   Reactivity: 0
   Specific hazard:

Protective Equipment:
   Gloves.
   Lab coat.
   Dust respirator. Be sure to use an approved/certified respirator or equivalent.
   Splash goggles.

16. OTHER INFORMATION

References: Not available
Other Special Considerations: Not available