MATERIAL SAFETY DATA SHEET

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

2. COMPOSITION & INFORMATION ON INGREDIENTS
Chemical Characterisation : CdSe/CdS
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.
Unusable Packaging Materials: Wash thoroughly after handling. Irritating dust, Keep tightly closed

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**

<table>
<thead>
<tr>
<th>Form</th>
<th>Powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>N/A</td>
</tr>
<tr>
<td>Odour</td>
<td>No Odour</td>
</tr>
</tbody>
</table>

**Safety Related Information**

<table>
<thead>
<tr>
<th>FlashPoint</th>
<th>N/A</th>
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<tbody>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
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</table>

10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Stability</th>
<th>Completely Stable</th>
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<tbody>
<tr>
<td>Reactivity</td>
<td>Non Reactive/ Non Soluble</td>
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11. TOXICOLOGICAL INFORMATION

**Possible Health Effects**

<table>
<thead>
<tr>
<th>Skin</th>
<th>No effect</th>
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<tbody>
<tr>
<td>Eyes</td>
<td>Irritation</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No Chocking Hazard</td>
</tr>
<tr>
<td>Toxicity</td>
<td>Non-Toxic</td>
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</table>

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)

<table>
<thead>
<tr>
<th>HS Code</th>
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<tbody>
<tr>
<td>CAS</td>
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<tr>
<td>Proper Shipping Name</td>
<td>Cadmium Selenium/Cadmium Sulfide Core/Shell Nanoparticles</td>
</tr>
<tr>
<td>Air Transport (ICAO &amp; IATA)</td>
<td>Speciality Chemical</td>
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<tr>
<td>Class</td>
<td>Non Hazardous</td>
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<tr>
<td>Packing group</td>
<td>Normal Packing</td>
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<tr>
<td>Transport information</td>
<td>Not regulated for IATA (AIR)</td>
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</table>
15. OTHER REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Cadmium Selenium/Cadmium 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