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
Willmington 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.
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**

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)**

<table>
<thead>
<tr>
<th>HS Code</th>
<th>28170020</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS</td>
<td>1314-13-2</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Cadmium selenium/ Zinc sulfide Core/Shell Nanoparticles</td>
</tr>
<tr>
<td>Air Transport (ICAO &amp; IATA)</td>
<td>Specialty Chemical</td>
</tr>
<tr>
<td>Class</td>
<td>Non Hazardeous</td>
</tr>
<tr>
<td>Packing group</td>
<td>Normal Packing</td>
</tr>
<tr>
<td>Transport information</td>
<td>Not regulated for IATA (AIR)</td>
</tr>
</tbody>
</table>
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