MATERIAL SAFETY DATA SHEET

ZINC NANOPOWDER
Stock #: NS6130-01-148

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY
Product Name: Zinc Nanopowder
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: Zn
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.

5. PRECAUTIONS FOR HANDLING AND STORING

6. EXPOSURE CONTROLS/PERSONAL PROTECTION

7. HANDLING AND STORAGE

8. EXPOSURE LIMITS

9. PHYSICAL AND CHEMICAL PROPERTIES

10. STABILITY AND REACTIVITY

11. TOXICOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

14. TRANSPORT INFORMATION

15. REGULATORY INFORMATION

16. OTHER INFORMATION

17. CERTIFIED BY

18. PRINTED ON

Intelligent Materials Pvt. Ltd.
www.nanoshel.com, sales@nanoshel.com

NANOSHEL LLC (In Collaboration)
3422 Old Capitol Trial Suit 1305, Wilmington DE - 19808 USA
(001) 302 652-3464, + 91 9779-880077
5. FIREFIGHTING MEASURES

<table>
<thead>
<tr>
<th>Extinguishing Data</th>
<th>:</th>
<th>Water Spray</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable Extinguishing Data</td>
<td>:</td>
<td>Carbon Dioxide, Dry Chemical Powder, Polymer Foam</td>
</tr>
<tr>
<td>Unusual Firefighting Hazards</td>
<td>:</td>
<td>Capable of creating a dust explosion</td>
</tr>
<tr>
<td>Special Firefighting Procedures</td>
<td>:</td>
<td>Use normal procedures which include wearing self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.</td>
</tr>
</tbody>
</table>

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

| Personal Protective Equipment | : | Self-contained breathing apparatus |
| Respiratory | : | Chemical-resistant Gloves |
| Hand | : | Avoid contact with eyes |
| Eye | : | Wash thoroughly after handling |
9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**
- Form: Powder
- Colour: Grey to Black
- Odour: No Odour

**Safety Related Information**
- Flash Point: N/A
- Boiling Point: 907°C
- Melting Point: 419.53°C
- 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)

- HS Code: 79031000
- CAS: 7440-66-6
- Proper Shipping Name: Zinc Nanopowder
- Air Transport (ICAO & IATA): Metal Nanopowder
- Class: Non Hazardous
- Packing group: Normal Packing
- Transport information: Not regulated for IATA (AIR)
15. OTHER REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Zinc Nanopowder

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