MATERIAL SAFETY DATA SHEET

BISMUTH NANOPOWDER
Stock #: NS6130-01-175

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY
Product Name: Bismuth 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: Bi
Hazardous Ingredients: Nil

3. HAZARD IDENTIFICATION
Toxicity: No Data Available
Eye Contact: Dust may cause irritation
Ingestion: Wash out mouth with water provided person is conscious.
Inhalation: If inhaled, remove to fresh air. If not

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
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**: Grey to Black
- **Odour**: No Odour

**Safety Related Information**
- **FlashPoint**: N/A
- **Boiling Point**: 1564°C
- **Melting Point**: 271.5°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 (ÜN ORNEK OLARAK VERİLMİŞTİR)

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS Code</td>
<td>81060090</td>
</tr>
<tr>
<td>CAS</td>
<td>7440-69-9</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Bismuth Nanopowder</td>
</tr>
<tr>
<td>Air Transport (ICAO &amp; IATA)</td>
<td>Metal Nanopowder</td>
</tr>
<tr>
<td>Class</td>
<td>Non Hazardous</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: Bismuth 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