MATERIAL SAFETY DATA SHEET

SAMARIAUM NANOPOWDER
Stock #: NS6130-01-186

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY
Product Name: Samarium 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: Sm
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
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: N/A
- Odour: No Odour

**Safety Related Information**
- FlashPoint: N/A
- Boiling Point: 1900°C
- Melting Point: 1072°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: 28053000
- CAS: 7440-19-9
- Proper Shipping Name: Samarium 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: Samarium 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