Section 1: Identification

Product Name: Indium Tin Oxide / In$_2$O$_3$SnO$_2$
CAS Number: NIL / EC Number: NIL
Company: Angstrom Sciences, Inc.
40 South Linden Street
Duquesne, PA 15110
For more information call: 412-469-8466
(Monday - Friday 9:00-5:00 EST)

Section 2: HAZARD IDENTIFICATION

Signal Word: Warning

Hazard Statements: H335: May cause respiratory irritation
Precautionary Statements: P261: Avoid breathing dust/fume
P304 + P340: If inhaled, Remove person to fresh air.
P403 + P405 + P233: Store locked up, in a well-ventilated container, tightly closed.
P501: Dispose of according to local, regional, national, international regulations

HMIS Health Ratings (0-4):
Health: 1
Flammability: 0
Physical: 0
Section 3: Composition/Information on Ingredients

Chemical characterization: Ceramic
Additional Names: None
Percentage: 0-100 wt%
CAS# Description: NIL
EC number: NIL

Section 4: FIRST AID MEASURES

General Treatment: Seek medical attention if symptoms persist.
Special Treatment: None
Important Symptoms: None
Eye Contact: Flush eyes with water, blinking often for ten minutes.
Skin Contact: Wash affected area with mild soap and water. Remove any contaminated clothing.
Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion: Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.

Section 5: FIRE FIGHTING MEASURES

Flammability: Non-flammable
Special Fire Fighting Procedure: Use full-face, self contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.
Extinguishing Media: Use suitable extinguishing agent for surrounding material and type of fire.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.
Environmental Precautions: Isolate runoff to prevent environmental pollution.

Section 7: HANDLING AND STORAGE

Handling Precautions for safe handling: Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities: Store in a cool dry place in a tightly sealed container.
Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.
Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit.
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**Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

- **Permissible Exposure Limits:** 0.1 mg/m³ as in (OSHA)
- **Threshold Limit Value:** 0.1 mg/m³ as in (ACGIH)
- **Special Equipment:** None
- **Respiratory Protection:** Dust respirator, NIOSH approved
- **Protective Gloves:** Rubber Gloves
- **Eye Protection:** Safety glasses or goggles
- **Body Protection:** Protective work clothing. Wear close-toed shoes and long sleeves/pants.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

- **Appearance:**
  - **Form:** Powder, Granules, Pellets, Sputtering target, Custom parts
  - **Color:** White
  - **Odor:** Odorless
  - **Water Solubility:** Insoluble
  - **Boiling Point:** N/A
  - **Melting Point:** N/A
  - **Density:** N/A
  - **Molecular Weight:** N/A

**Section 10: STABILITY AND REACTIVITY**

- **Reactivity:** None
- **Chemical Stability:** Stable under recommended storage conditions
- **Incompatible Conditions:** None
- **Hazardous Decomposition Products:** Metal oxide fume

**Section 11: TOXICOLOGICAL INFORMATION**

- **Potential Health Effects:**
  - **Eyes:** May cause irritation
  - **Skin:** May cause irritation
  - **Ingestion:** May cause irritation
  - **Inhalation:** May cause irritation
  - **Chronic:** N/A
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Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A
Median Lethal Dose: N/A
Carcinogen: N/A

Section 12: ECOLOGICAL INFORMATION
Ecological data is not available.

Section 13: DISPOSAL CONSIDERATIONS
Dispose of in accordance with local, state, national, and international regulations.

Section 14: TRANSPORT INFORMATION
Hazardous: Not hazardous for transportation
Hazard Class: N/A
Packing Group: N/A
UN Number: N/A
Proper Shipping Name: N/A

Section 15: REGULATORY INFORMATION
Sec 302 Extremely Hazardous: No
Sec 304 Reportable Quantities: N/A
Sec 313 Toxic Chemicals: No

Section 16: OTHER INFORMATION
This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.