ALUMINUM

SAFETY DATA SHEET

DATE OF LAST REVISION: 0 6/11/15

Section 1: Identification

Product Name: Aluminum

CAS Number: 7429-90-5 / **EC Number:** 231-072-3

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: Danger



Hazard Statements: H250 Catches fire spontaneously if exposed to air.

H261 In contact with water releases flammable gas

Precautionary Statements: P210 Keep away from heat/sparks/open flames/hot surfaces - No smoking

P222 Do not allow contact with air

P231 + P232 Handle under inert gas. Protect from moisture

P370 + P378 In case of fire; Use special powder for metal fires for extinction

P422 Store contents under inert gas

Dispose of contents/container in accordance with local/regional/national/international

regulations.

HMIS Health Ratings (scale 0-4)

	Powaer	Bulk
Health	1	0
Flammability	3	0
Physical	2	0

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Section 3: Composition

Chemical characterization: Metal CAS# Description: 7429-90-5

Percentage: 100 wt% EC number: 231-072-3

Section 4: FIRST AID MEASURES

Eye Contact: Flush eyes with water, blinking often for several minutes. Remove contact lenses if

present and easy to do. Continue rinsing.

Skin Contact: Wash affected area with mild soap and water.

Inhalation: Remove victim to fresh air. If unconscious, place patient stably in side position for

transportation.

Ingestion: Seek medical treatment.

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None **Important Symptoms:** None

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing Media: Do not use water for metal fires - use CO2, sand, extinguishing powder

Flammability: Non-Flammable, except as powder

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.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill are 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. Store apart from materials and conditions listed in Section 10.

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.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Permissible Exposure Limits: 15 mg/m3 as Al, metal, long-term value

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Threshold Limit Value: 1 mg/m³ as Al, long-term value

Special Equipment: None

Respiratory Protection:

Dust respirator

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: Metallic Grey Odor: Odorless Water Solubility: Insoluble **Boiling Point:** 2519° C **Melting Point:** 660°C Flash Point: N/A Autoignition Temperature: N/A Density: 2.70 g/cc 29.981 g/mol Molecular Weight:

Section 10: STABILITY AND REACTIVITY

Reactivity: Reacts with oxidizing agents, air, acids, bases,

halocarbons, water

Chemical Stability: Stable under recommended storage conditions

Incompatible Conditions:Hazardous Decomposition Products:
Air, Moisture
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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Section 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: Low

Persistence Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No

Notes: N/A

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, national, and international regulations

Section 14: TRANSPORT INFORMATION

Hazardous: Hazardous as powder only.



Hazard Class: 4.3 Substances which, in contact with water produce flammable gas.

Packing Group:

UN Number: UN1396

Proper Shipping Name: Aluminum powder, uncoated

Section 15: REGULATORY INFORMATION

Sec 302 Extremely Hazardous: No
Sec 304 Reportable Quantities: N/A
Sec 313 Toxic Chemicals: Yes

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.