ALUMINUM NITRIDE

SAFETY DATA SHEET

DATE OF LAST REVISION: 07/07/15

Section 1: Identification

Product Name: Aluminum Nitride CAS Number: 24304-00-5 / EC Number: 246-140-8 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: H3 ⁻	15 Causes skin irritation
H3 ²	9 Causes serious eye irritation
H33	35 May cause respiratory irritation

Precautionary Statements:	: P261 Avoid breathing dust/fume/gas/mist/vapors/spray	
	P280 Wear protective gloves/protrective clothing/eye protection/face protection	
	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.	
	Remove contact lenses, if presend and easy to do. Continue rinsing.	
	P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position	
	comforable for breathing.	
	P405 Store locked up	
	P501 Dispose of contents/container in accordance with local/regional/national/	
	international regulations	

HMIS Health Ratings (scale 0-4)

Health	1
Flammability	0
Physical	1

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Section 3: Composition

Chemical characterization: Ceramic

CAS# Description: 24304-00-5

Percentage: 100 wt%

EC number: 246-140-8

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. Remove any contaminated clothing. Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult

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

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: Handle under dry protective gas. 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.

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Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Permissible Exposure Limits:	N/A
Threshold Limit Value:	1 mg/m ³ as AI as respirable fraction, long-term value
Special Equipment:	None
Respiratory Protection:	Use a respirator with type N95 (USA) or PE (EN143) cartridges as a backup to engineering controls. Risk assessment should be performed
	to determine if purifying respirators are appropriate. Only use equipment
	tested and approved under appropriate government standards.
Protective Gloves:	Nitrile rubber, NBR
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:	Ammonia-like
Water Solubility:	Hydrolyzes slowly
Boiling Point:	N/A
Melting Point:	>2200° C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	3.26 g/cc
Molecular Weight:	40.99 g/mol

Section 10: STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Incompatible Conditions: Hazardous Decomposition Products: Reacts with acids, water, bases, oxidizing agents. Stable under recommended storage conditions Water/Moisture Nitrogen oxides, Ammonia, Metal oxide fume

Section 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes:Cause serious eye damage

Skin: Causes irritation

Ingestion: May cause irritation

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Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A

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:Not hazardous for transportationHazard Class:N/APacking Group:N/AUN Number:N/AProper 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.