S STANFORD Advanced Materials	Stanford Advanced Materials Safety Data Sheet Aluminum Scandium
1. Product and Company Identification	
Trade Name:	Aluminum Scandium
Chemical Formula: Recommended Use:	Al-Sc Scientific research and development
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	Stanford Advanced Materials
	Address : 23661 Birtcher Dr.,
	Lake Forest, CA 92630 U.S.A. Tel: (949) 407-8904
	Fax: (949) 812-6690
24-Hour Emergency Contact:	(949) 407-8904 (This telephone number is available 24 hours per day, 7 days per week.)
	2. Hazards Identification
Signal Word:	None
Hazard Statements:	None
Precautionary Statements:	None
HMIS Health Ratings (0-4):	
Health:	0
Flammability:	0
Physical:	0
	3. Composition
Chemical Family:	Alloy
Additional Names:	None
Aluminum (Al):	
Percentage:	0-100 wt%
CAS #:	7429-90-5
EC #: Scandium (Sc):	231-072-3
Percentage:	0-100 wt%
CAS #:	7440-20-2
EC #:	7440-20-2
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Seek Medical Attention.
Skin:	Wash affected area with mild soap and water. Remove any
Eyes:	contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

	5. Firefighting Measures
	5. Pricingitung Measures
Flammability:	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
	surrounding material and type of fire.
Spec. 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.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
i Wateriai is Released/Spilled.	special protection information. Isolate spill area and provide
en la factoria de la composición de la	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.
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	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10.
Work/Hygianic Maintonance	
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
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	threshold limit
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Darmissible Evrosure Limiter	8. Exposure Controls and Personal Protection
Permissible Exposure Limits: Fhreshold Limit Value:	
Threshold Limit Value:	 8. Exposure Controls and Personal Protection 15 mg/m³ as Al total dust or repirable fraction, long-term value 1 mg/m³ as Al respirable fraction, long-term value
Threshold Limit Value: Special Equipment:	 8. Exposure Controls and Personal Protection 15 mg/m³ as Al total dust or repirable fraction, long-term value 1 mg/m³ as Al respirable fraction, long-term value None
Threshold Limit Value: Special Equipment: Respiratory Protection:	 8. Exposure Controls and Personal Protection 15 mg/m³ as Al total dust or repirable fraction, long-term value 1 mg/m³ as Al respirable fraction, long-term value None Dust Respirator
Threshold Limit Value: Special Equipment: Respiratory Protection: Protective Gloves:	 8. Exposure Controls and Personal Protection 15 mg/m³ as Al total dust or repirable fraction, long-term value 1 mg/m³ as Al respirable fraction, long-term value None Dust Respirator Rubber gloves
Threshold Limit Value: Special Equipment: Respiratory Protection: Protective Gloves: Eye Protection:	 8. Exposure Controls and Personal Protection 15 mg/m³ as Al total dust or repirable fraction, long-term value 1 mg/m³ as Al respirable fraction, long-term value None Dust Respirator Rubber gloves Safety glasses or goggles Detecting work plothing. Weap place tood shoes and long
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Threshold Limit Value: Special Equipment: Respiratory Protection: Protective Gloves: Eye Protection: Body Protection: Color Form:	 8. Exposure Controls and Personal Protection 15 mg/m³ as Al total dust or repirable fraction, long-term value 1 mg/m³ as Al respirable fraction, long-term value None Dust Respirator Rubber gloves Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long sleeves/pants. 9. Physical and Chemical Characteristics Silver grey Granules, Pellets, Sputtering target, Custom parts
Threshold Limit Value: Special Equipment: Respiratory Protection: Protective Gloves: Eye Protection: Body Protection: Color Form: Odor:	 8. Exposure Controls and Personal Protection 15 mg/m³ as Al total dust or repirable fraction, long-term value 1 mg/m³ as Al respirable fraction, long-term value None Dust Respirator Rubber gloves Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long sleeves/pants. 9. Physical and Chemical Characteristics Silver grey Granules, Pellets, Sputtering target, Custom parts Odorless
Chreshold Limit Value: Special Equipment: Respiratory Protection: Protective Gloves: Bye Protection: Body Protection: Color Form: Ddor: Water Solubility:	 8. Exposure Controls and Personal Protection 15 mg/m³ as Al total dust or repirable fraction, long-term value 1 mg/m³ as Al respirable fraction, long-term value None Dust Respirator Rubber gloves Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long sleeves/pants. 9. Physical and Chemical Characteristics Silver grey Granules, Pellets, Sputtering target, Custom parts Odorless Insoluble
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Threshold Limit Value: Special Equipment: Respiratory Protection: Protective Gloves: Eye Protection: Body Protection: Color Form: Ddor: Water Solubility: Boiling Point: Melting Point: Flash Point:	 8. Exposure Controls and Personal Protection 15 mg/m³ as Al total dust or repirable fraction, long-term value l mg/m³ as Al respirable fraction, long-term value None Dust Respirator Rubber gloves Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long sleeves/pants. 9. Physical and Chemical Characteristics Silver grey Granules, Pellets, Sputtering target, Custom parts Odorless Insoluble N/A 660.5 – 1541 °C N/A
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	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	None
Hazardous Decomposition Products:	Metal oxide fume
	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
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	13. Disposal Considerations
Dispose of in accordance with local, state,	national, and international regulations.
	14. Transportation Data
Hazardous:	Not hazardous for transportation.
Hazard Class:	N/A
Packing Group:	N/A
UN Number:	N/A
Proper Shipping Name:	N/A
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	No
	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.

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