



Address: 3158 S. Chrysler Ave., Tucson, AZ 85713
 Tel: 1-520-514-1100 Fax: 1-520-747-4024
<http://www.advaluetech.com> Email: sales@advaluetech.com

Section 1: Product and Company Identification

Catalogue#: ALO-5N-SD-G

Product Description: Aluminum oxide
 99.999%

CAS No. 1344-28-1

Emergency Phone Number: 1-520-514-1100

Contact Information:

AdValue Technology, LLC
 3158 S. Chrysler Ave.,
 Tucson, AZ 85713
 United States
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 Fax: 520-747-4024
 Email: sales@advaluetech.com
[Http://www.advaluetech.com](http://www.advaluetech.com)

Section 2: Hazard Identification

WCSL	
Health Hazard	1
Reactivity	0
Flammable	0
Protect	1

Primary Routes of Entry :	Skin, Eye, Inhalation, Ingestion.
Health Hazard:	Hazard is principally that of a nuisance dust. Coughing or shortness of breath may occur in cases of excessive inhalation.
Environment Hazard :	N/A
Fire & Explosion Hazards:	Not considered to be a fire hazard.

Section 3: Composition/Information on Ingredients

Pure Mixture

Ingredient	Formula	Percent	CAS No.
Aluminum oxide	Al ₂ O ₃	≥ 99.999%	1344-28-1

Section 4: First-Aid Measures

Entry Routes	First Aid
Inhalation	Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion	Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.
Skin Contact	Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.
Eyes	Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

Section 5: Fire and Explosion Data

Fire:	Not considered to be a fire hazard.
Explosion:	Not considered to be an explosion hazard.
Fire Extinguishing Media:	Use any means suitable for extinguishing surrounding fire.
Special Information:	Use protective clothing and breathing equipment appropriate for the surrounding fire and to protect against the aluminum oxide dust that may be dispersed in the air.

Section 6: Accidental Release Measures

Accidental Release Measures:	Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.
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Section 7: Handling and Storage

Handling and Storage:	Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
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Section 8: Exposure Controls/Personal Protection

Maximum Concentration	TLV	PEL-TWA	PEL-STEL	PEL-Ceiling
	10mg/m ³	N/A	10mg/m ³	N/A
Monitoring Method	N/A			
Ventilation System	<p>A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.</p>			
Personal Respirators (NIOSH Approved)	<p>Normal room ventilation is adequate. If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.</p>			
Eye Protection	Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.			
Skin Protection	Wear protective gloves and clean body-covering clothing.			

Section 9: Physical and Chemical Properties

Appearance: White Powder

PH:	N/A	Melting Point (°C)	2050
Boiling Point	2980	Density(g/m³)	3.97
Relative vapor density (Air=1)	N/A	Saturated vapor pressure (kPa)	N/A
Heat (kJ/mol)	N/A	Critical temperature (°C)	N/A
Solubility	Insoluble in water	Odor:	Odorless
Other physical and chemical properties	N/A		

Section 10: Stability and Reactivity

Stability:	Stable under ordinary conditions of use and storage.
Incompatibility:	Chlorine trifluoride, Ethylene oxide.
Conditions to Avoid:	Incompatibles.
Hazardous Polymerization:	Will not occur.
Decomposition Hazard:	N/A

Section 11: Toxicological Information

Acute toxicity:	LD50/Ingestion	LD50/skin contact 24h	LC50/Inhalation	Others
	N/A	N/A	N/A	N/A
Sub-acute and Chronic:	N/A			
Irritant:	N/A			
Allergenicity:	N/A			
Mutagenicity:	N/A			
Teratogenicity:	N/A			
Carcinogenicity:	N/A			
Others:	N/A			

Section 12: Ecological Information

N/A

Section 13: Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14: Transport Information

The substance is not subject to IATA DGR. It is suitable for all modes of transportation.

Section 15: Regulatory Information

Chemical Inventory Status - Part 1				
Ingredient	TSCA	EC	Japan	Australia
Aluminum Oxide (1344-28-1)	Yes	Yes	Yes	Yes
Chemical Inventory Status - Part 2				
		Canada		
Ingredient	Korea	DSL	NDSL	Phil.
Aluminum Oxide (1344-28-1)	Yes	Yes	No	Yes
Federal, State & International Regulations - Part 1				
	SARA302		SARA313	
Ingredient	RQ	TPQ	List	Chemical Catalog
Aluminum Oxide (1344-28-1)	No	No	Yes	No
Federal, State & International Regulations - Part 2				
Ingredient	CERCLA	RCRA 261.33	TSCA8(d)	
Aluminum Oxide (1344-28-1)	No	No	No	

Section 16: Other Information

HMIS Rating:

Health 1, Flammability 0, Reactivity 0, Personal Protection 1

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