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### **Section 1: Product and Company Identification**

**Catalogue#:** ALO-5N-4

**Product Description:** Aluminum oxide 99.999%  
**CAS No.** 1344-28-1

Emergency Phone Number: 1-520-514-1100

**Contact Information:**

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### **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	Not considered to be a fire hazard.

### **Section 3: Composition/Information on Ingredients**

Pure  Mixture

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

#### **Section 4: First-Aid Measures**

<b>Entry Routes</b>	<b>First Aid</b>
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**

<b>Maximum Concentration</b>	<b>TLV</b>	<b>PEL-TWA</b>	<b>PEL-STEL</b>	<b>PEL-Ceiling</b>
	10mg/m <sup>3</sup>	N/A	10mg/m <sup>3</sup>	N/A
<b>Monitoring Method</b>	N/A			
<b>Ventilation System</b>	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.			
<b>Personal Respirators (NIOSH Approved)</b>	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. <b>WARNING:</b> Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.			
<b>Eye Protection</b>	Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.			
<b>Skin Protection</b>	Wear protective gloves and clean body-covering clothing.			

### **Section 9: Physical and Chemical Properties**

Appearance: White Powder

<b>PH:</b>	N/A	<b>Melting Point (°C)</b>	2050
<b>Boiling Point (°C)</b>	2980	<b>Density(g/m<sup>3</sup>)</b>	3.97
<b>Relative vapor density (Air=1)</b>	N/A	<b>Saturated vapor pressure (kPa)</b>	N/A
<b>Heat (kJ/mol)</b>	N/A	<b>Critical temperature (°C)</b>	N/A
<b>Solubility</b>	Insoluble in water	<b>Odor:</b>	Odorless
<b>Other physical and chemical properties</b>	N/A		

### **Section 10: Stability and Reactivity**

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

### **Section 11: Toxicological Information**

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

<b>Chemical Inventory Status - Part 1</b>				
Ingredient	TSCA	EC	Japan	Australia
Aluminum Oxide (1344-28-1)	Yes	Yes	Yes	Yes
<b>Chemical Inventory Status - Part 2</b>				
Ingredient	Korea	Canada		Phil.
Aluminum Oxide (1344-28-1)	Yes	DSL	NDSL	Yes
<b>Federal, State &amp; International Regulations - Part 1</b>				
Ingredient	SARA302		SARA313	
Aluminum Oxide (1344-28-1)	RQ	TPQ	List	Chemical Catalog
Aluminum Oxide (1344-28-1)	No	No	Yes	No
<b>Federal, State &amp; International Regulations - Part 2</b>				
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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