

Safety Data Sheet Activated Alumina

Adsorbent Desiccant



Section 1 – Produ	ict and Company I	nformation	Date: January 18, 2018 Rev. G
Product Name: Chemical Family: Catalog Numbers:	Aluminum oxide	1/8", 1/4", 3/16", and 1/2") 3-0240, 33-0241, 33-0266, 33	-0267, 33-0367, 33-0370, 33-0371, 33-0372,
	33-0401, 33-0402, an		- , , , , , ,
	rial: Adsorbent used to ressed Air and other Co	reduce moisture content of C ompressed Gasses	ompressed Natural Gas,
		ms / Van Gas Technologies c Street, Lake City, PA USA	
		ovanairsystems.com <u>ystems.com</u> / <u>www.vangas</u>	tech.com
	e Number call Chemto	el: US, Canada, Puerto Rico International +01-813-248 -774-2631	· · · · · · · · · · · · · · · · · · ·
Section 2 – Hazard Id	entification		
Color: Physical state: Odor: Emergency Overview	 White to tan-white Solid beads or granules Odorless Avoid excess contact with skin and eyes. Avoid breathing dust. Wash thoroughly with soap and water after handling. 		
Signal Word: Hazard Pictogram:	Warning!		
Potential Health Effect		May cause mild skin, eve	and/or respiratory irritation.
Health Hazards (acut Carcinogenicit NTP: IARC Monogra	e and chronic): y:	None known. Not available Not available Not available	
Signs and Symptoms of Exposure:		Skin dryness due to desiccant action. Ingestion of large amounts may cause vomiting, diarrhea and prostration.	
Section 3 – Composi	tion / Information on I	ngredients	
Component Aluminum Oxide (Al ₂ O Sodium Oxide (Na ₂ O) Silicon Dioxide (SiO ₂) Water (H ₂ O)	CAS NO. 3) 1344-28-1 1313-59-3 60676-86-0 7732-18-5	% Compound > 94% < 0.35% < 0.015% <6%	

1) Hazardous / Dangerous ingredients: None

Loss on Ignition (1000°C) 6.0% **EINECS Number:** 215-691-6

2) Activated Alumina does not contain any substances found on the following EPA regulations:

- "Extremely Hazardous Substances" "CERCLA Hazardous Substances" "Toxic Substances" a.
- b.
- c.

Section 4 - First Aid Measures				
General:	No special measures required.			
Eyes:	Flush with water for several minutes.			
Skin:	Remove contaminated clothing / shoes. Wash with soap and water. Treat for dry skin or mild irritation.			
Inhalation:	Move person to fresh a	ir. If irritation persists, consult a Physician.		
Ingestion:	If symptoms exist c ons	ult a Physician.		
Note to Physician:	Treat symptomatically	and supportively.		
Section 5 – Fire Fighti	ing Measures			
Flammable Properties Flash Point: Method Used: Flammability Limits: LEL: UEL:	3:	Non-flammable Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.		
Fire Fighting Instruction Extinguishing Media:		Non-combustible. Not applicable.		
Unusual Fire and Explosion Hazards:		Chlorine Triflouride reacts violently with Aluminum Oxide producing a flame.		
Section 6 – Accidenta	I Release Measures			
Small/Large Spills:		Sweep, shovel or vacuum for disposal per local, state and federal requirements or reuse.		
Waste Disposal Method:		Treat as ordinary non-combustible solid waste. Dispose of per local, state and federal requirements.		
Section 7 – Handling	and Storage			
Handling:		Beads and granules are non-toxic. Minimize dust generation and use with adequate ventilation. NIOSH respiratory protection as needed for nuisance dust. Clean up any spills (trip and fall hazard) Wash thoroughly after handling.		
Storage:		Store in cool dry place. Keep containers tightly closed since material is hygroscopic. Repair damaged containers.		
Section 8 – Exposure	Controls and Personal	I Protection		
Engineering controls:		Provide good general and local ventilation. Immediate work area should be equipped with eye wash station.		
Exposure Limits:		OSHA Inhalation Respirable fraction PEL 15 (mg/m ₃) REL 5 (mg/m ₃) ACGIH Inhalation Respirable fraction TLV 1 (mg/m ₃)		
Personal Protective E	quipment (PPE)			
Respirators:		Use NIOSH or EN 149 approved respirator if dust cannot be controlled.		
Hands and Feet:		Rubber gloves and chemical / slip resistant safety shoes. Recommended		

Eye Protection:	Safety o
Other Protective Clothing & Equipment:	Clean, I
Work/Hygienic Practices:	Wash th

afety glasses with side shields or chemical safety goggles.

Clean, body-covering skin protecting clothing is recommended.

Vash thoroughly with soap and water after handling.

Section 9 -	Physical	and Chemical	Properties
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Appearance and Odor: Bulk Density: Vapor Pressure (mm Hg): Melting Point: Vapor Density (Air=1): Solubility in Water: Evaporation Rate (Butyl Acetate=1): Boiling Point: Section 10 – Stability and Reactivity	White to tan-white solid beads or granules, odorless. 42 - 44 lbs/cubic foot Not applicable. Not applicable. Not applicable. Insoluble. Not applicable. > 2050°C		
Stability (Conditions to avoid):	Stable under normal temperatures and pressures.		
Decomposition Products:	Not available		
Incompatibility (Materials to avoid):	Contact with water may produce heat		
Hazardous Polymerization:	Not available		
Section 11 – Toxicological Information			
Toxicity to Animals:	LD50: Not available. LC50: Not available.		
Special Remarks on Toxicity to Animals: Not available. Chronic Effects on Humans: Carcinogenic Effects: A4 (Not classifiable for human or animal.) by ACGIH. TERATOGENIC: Classified None for humans. Other Toxic Effects on Humans: Slightly hazardous in case of skin contact, ingestion, or inhalation. Special Remarks on Chronic Effects on Humans: Not available Special Remarks on other Toxic Effects on Humans: Not available Acute/Chronic Potential Health Effects: No effects known Eyes: Severe dust may cause eye irritation.			
Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients are listed. NTP (National Toxicology Program) None of the ingredients are listed. OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients are listed.			
US EPA Waste Number: Not regulated.			
Section 12 - Ecological Information			
Environmental Fate:	No data available		
Eco-toxicity: No data available			

Section 13 – Disposal Considerations

Waste Disposal: All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The information presented here pertains only to the product as shipped in its intended condition as described in SDS section 3.

EPA Waste Number:

Not Applicable.

Section 14 – Transport Information

U.S. Department of Transportation (D.C Sea Transport (IMDG): Not classified a IATA: Not regulated as dangerous good Transportation of Dangerous Goods (T	s a dangerous good under transportation regulations. Is. Per IATA DGR
Class:	Not Regulated
Group:	Not Regulated
PIN Number:	Not Regulated
Other:	Secure product with suitable hold down devices during shipment in dry containers (avoid moisture).

Section 15 – Regulatory Information

OSHA Hazard Communication Standard: This product is a "Non-H

This product is a "Non-Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Federal and State Regulations:

Illinois toxic substances disclosure to employee act: Aluminum oxide Rhode Island RTK hazardous substances: Aluminum Oxide Minnesota: Aluminum oxide Massachusetts RTK: Aluminum oxide New Jersey: Aluminum oxide New Jersey spill list:

Aluminum oxide California Director's list of Hazardous Substances: Aluminum oxide TSCA 8(b) inventory: Aluminum oxide SARA 313 toxic chemical notification and release reporting: Aluminum oxide

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances. Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

R36/38- Irritating to eyes and skin. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice and show this SDS or product label

. Section 16 – Other Information

HMIS RATING (estimated)-	Health: 1	Flammability: 0	Reactivity: 0
NFPA RATING (estimated)-	Health: 1	Flammability: 0	Reactivity: 0

Personal Protective Rating: B Legend: N.A. – Not Applicable, N.E. – Not Established, N.D. - Not Determined. Recommended Uses and Restrictions: This product is designed to be used as a desiccant material for compressed air and gas. If your intended use is consistent with our stated uses(s), contact our technical sales department.

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