

Safety Data Sheet Activated Alumina Adsorbent Desiccant



Date: March 1, 2022 Rev. I

Section 1 – Product and Company Information

Product Name: Activated Alumina (1/8", 1/4", 3/16", and 1/2")

Chemical Family: Aluminum Oxide

Catalog Numbers: 33-0237, 33-0238, 33-0240, 33-0241, 33-0266, 33-0267, 33-0367, 33-0370, 33-0371, 33-0372,

33-0401, 33-0402, and 33-0417

Product Use: Industrial: Adsorbent used to reduce moisture content of Compressed Natural Gas,

Compressed Air and other Compressed Gasses

Company Identification: Van Air Systems / Van Gas Technologies

2950 Mechanic Street, Lake City, PA USA

16423-2095

E-mail: info@vanairsystems.com

www.vanairsystems.com / www.vangastech.com

Emergency Telephone Number call Chemtel: US, Canada, Puerto Rico 1-800-255-3924 (Van Air)

International +01-813-248-0585 (Van Air)

Customer Service Telephone Number: 814-774-2631

Section 2 - Hazard Identification

Color: White to tan-white **Physical state:** Solid beads or granules

Odor: Odorless

Emergency Overview: Avoid excess contact with skin and eyes. Avoid breathing dust. Wash thoroughly with

soap and water after handling.

Signal Word: Warning!

Hazard Pictogram:



Potential Health Effects: May cause mild skin, eye and/or respiratory irritation.

Health Hazards (acute and chronic):Carcinogenicity:

None known.

Not available

Not available NTP: Not available IARC Monographs: 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 – Composition / Information on Ingredients

Component CAS NO. % Compound

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

- 1) Hazardous / Dangerous ingredients: None
- 2) Activated Alumina does not contain any substances found on the following EPA regulations:

a. "Extremely Hazardous Substances"b. "CERCLA Hazardous Substances"

c. "Toxic Substances"

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 air. If irritation persists, consult a Physician.

Ingestion: If symptoms exist consult a Physician.Note to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

Flammable Properties: Non-flammable

Flash Point: Not applicable. Method Used: Not applicable

Flammability Limits:

Not applicable.

LEL: Not applicable. UEL: Not applicable.

Fire Fighting Instructions: Non-combustible.

Extinguishing Media: Not applicable.

Unusual Fire and Explosion Hazards: Chlorine Triflouride reacts violently with Aluminum Oxide producing a

flame.

Section 6 - Accidental 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 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/m₃) REL 5 (mg/m₃)

ACGIH Inhalation Respirable fraction

TLV 1 (mg/m₃)

Personal Protective Equipment (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 glasses with side shields or chemical safety goggles.

Other Protective Clothing & Equipment: Clean, body-covering skin protecting clothing is recommended.

Work/Hygienic Practices: Wash thoroughly with soap and water after handling.

Section 9 - Physical and Chemical Properties

Appearance and Odor: White to tan-white solid beads or granules, odorless.

Bulk Density: 42 - 44 lbs/cubic foot Vapor Pressure (mm Hg): Not applicable.

Melting Point: Not applicable.

Vapor Density (Air=1): Not applicable.

Solubility in Water:

Evaporation Rate (Butyl Acetate=1):

Boiling Point:

Not applicable.

Not applicable.

> 2050°C

Section 10 - Stability and Reactivity

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.O.T.)

Not regulated as dangerous goods.

Sea Transport (IMDG): Not classified as a dangerous good under transportation regulations.

IATA: Not regulated as dangerous goods. Per IATA DGR Transportation of Dangerous Goods (TDG – Canada) Class:

Not Regulated Group:

Not Regulated Not Regulated 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-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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