



# Safety Data Sheet

## 4A Molecular Sieve

### Adsorbent Desiccant



#### Section 1 – Product and Company Information

Date: March 1, 2022 Rev C.

**Product Name:** Molecular Sieve, Type 4a (10x20, 1/16", 1/8")  
**Catalog Numbers:** 26-0889, 33-0317, 33-0249, 33-0265 & 33-0250

**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](mailto:info@vanairsystems.com)  
[www.vanairsystems.com](http://www.vanairsystems.com) / [www.vangastech.com](http://www.vangastech.com)

**Emergency Telephone Number call Chemtel:** US, Canada, Puerto Rico **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:**



#### Hazard statement(s)

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 Precautionary statement(s)  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
 P264 Wash skin thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear eye protection/ face protection.  
 P280 Wear protective gloves.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 P501 Dispose of contents/ container to an approved waste disposal plant.

### Section 3 – Composition / Information on Ingredients

<b>Chemical Name Percent</b> (by weight)	<b>CAS No.</b>
Silicon Oxide (Synthetic) < 60%	7631-86-9
Sodium Oxide < 40%	1313-59-3
Aluminum Oxide < 40%	1344-28-1
Magnesium Oxide < 5%	1309-48-4

### Section 4 - First Aid Measures

<b>General:</b>	No special measures required.
<b>Eyes:</b>	Flush with water for several minutes.
<b>Skin:</b>	Remove contaminated clothing / shoes. Wash with soap and water. Treat for dry skin or mild irritation.
<b>Inhalation:</b>	Move person to fresh air. If irritation persists, consult a Physician.
<b>Ingestion:</b>	If symptoms exist consult a Physician.
<b>Note to Physician:</b>	Treat symptomatically and supportively.

### Section 5 – Fire Fighting Measures

<b>Flammable Properties:</b>	Non-flammable
Flash Point:	Not applicable.
Method Used:	Not applicable
<b>Flammability Limits:</b>	Not applicable.
LEL:	Not applicable.
UEL:	Not applicable.
<b>Fire Fighting Instructions:</b>	Non-combustible.
<b>Extinguishing Media:</b>	Not applicable.
<b>Unusual Fire and Explosion Hazards:</b>	Not applicable

### Section 6 – Accidental Release Measures

<b>Small/Large Spills:</b>	Sweep, shovel or vacuum for disposal per local, state and federal requirements or reuse.
<b>Waste Disposal Method:</b>	Treat as ordinary non-combustible solid waste. Dispose of per local, state and federal requirements.

### Section 7 – Handling and Storage

**Clean up procedures:** Transfer to containers, preparatory for later disposal. Avoid generation of dusts. Place in non-sparking containers for recovery or disposal. Remove from spill location. Flush area with water spray.

**Waste Disposal Method:**

Recover, reclaim or recycle when practical. Dispose of in accordance with federal, state and local regulations.

**Handling:**

Avoid breathing dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only with adequate ventilation. Keep dry. Contact with water releases heat.

**Conditions for safe storage:**

Keep packaging closed when not in use. Store in dry protected location to prevent any moisture contact.

**Incompatible materials:**

Strong acids, bases.

### Section 8 – Exposure Controls and Personal Protection

**Permissible Exposure Limits (PELs):**

CAS# 1344-28-1

**I PEL-TWA 15mg/m3 (OSHA, total) 5mg/m3 (OSHA, resp)**

CAS# 7631-86-9

**I PEL-TWA**

15mg/m3 (OSHA, total) 5mg/m3 (OSHA, resp) 5mg/m3 (OSHA, fume)

**I TLV-TWA**

6mg/m3 (ACGIH)

**Monitoring Methods:** No information found.**Appropriate engineering controls:**

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Equipped with safety shower and eyes bath.

**Personal Protective Equipment (PPE):****Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles.**Skin:** Wear appropriate protective gloves to prevent skin exposure.**Clothing:** Working clothing is suggested.**Respirators:** It is suggested to use an appropriate respirator if dust in the air or if irritation or other symptoms are experienced.**Section 9 – Physical and Chemical Properties**

<b>Boiling Point:</b>	Not applicable	<b>Vapor Density (Air=1):</b>	Not applicable
<b>Specific Gravity (Water=1):</b>	.64 - .72	<b>Solubility in Water:</b>	Insoluble.
<b>Vapor Pressure (mm Hg):</b>	Not applicable	<b>Evaporation Rate (Butyl Acetate=1):</b>	Not applicable
<b>Melting Point:</b>	Not applicable	<b>Appearance &amp; Odor:</b>	Off-White beads with no odor
<b>pH:</b>	8~11 (AS)		

**Section 10 – Stability and Reactivity**

<b>Flash Point:</b>	Not applicable	<b>Flash Point Method:</b>	Not applicable
<b>Upper Flammable Limit:</b>	Not applicable	<b>Lower Flammable Limit:</b>	Not applicable
<b>Fire Fighting Instructions:</b>	Non-flammable		

**Extinguishing Media:** Use extinguishing agent applicable to surrounding fire conditions.**Fire and Explosion Hazards:** None known.**Section 11 – Toxicological Information****Information on the likely routes of exposure:****Inhalation:** Cough.**Ingestion:** Abdominal pain.**Eye contact:** Redness. Pain.**Information on toxicological characteristics**

CAS# 1344-28-1

I LD50: &gt;5000 mg/Kg (oral, rat)

CAS# 7631-86-9

I LD50: &gt;5510 mg/Kg (oral, rat)

I LD50: &gt;5000 mg/Kg (dermal, rabbit)

**Carcinogenicity:** Not listed by ACGIH, IARC, NTP, or CA Prop 65.**Sensitization Rate:** Not available.**Teratogenicity:** Not available.**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  
 PIN Number: Not Regulated

Other: Secure product with suitable hold down devices during shipment in dry containers (avoid moisture).

## Section 15 – Regulatory Information

CAS #	USA TSCA	EU EINECS	KOREA ECL	CHINA IECSC	CANADA DSL
1318-02-1	Listed	Listed	Listed	Listed	Not Listed

EU REACH: Substance has been registered under REACH regulations.

## Section 16 – Other Information

### Abbreviations and acronyms:

**TSCA:** Toxic Substances Control Act, The American chemical inventory.  
**DSL:** Domestic Substances List  
**EINECS:** European Inventory of Existing Commercial Chemical Substances  
**ECL:** Existing Chemicals List, the Korean chemical inventory.  
**IECSC:** Inventory of existing chemical substances in China.

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