Section 1 – Product and Company Information

Product Name: Molecular Sieve, Type 4a (10x20, 1/16", 1/8", 1/4", 3/16", and 1/2")
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
www.vanairsystems.com / 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

<table>
<thead>
<tr>
<th>Chemical Name Percent (by weight)</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon Oxide (Synthetic) &lt; 60%</td>
<td>7631-86-9</td>
</tr>
<tr>
<td>Sodium Oxide &lt; 40%</td>
<td>1313-59-3</td>
</tr>
<tr>
<td>Aluminum Oxide &lt; 40%</td>
<td>1344-28-1</td>
</tr>
<tr>
<td>Magnesium Oxide &lt; 5%</td>
<td>1309-48-4</td>
</tr>
</tbody>
</table>

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

Flammability Limits: Not applicable.

Flammability Limits:
- LEL: Not applicable.
- UEL: Not applicable.

Fire Fighting Instructions: Non-combustible.

Extinguishing Media: Not applicable.

Unusual Fire and Explosion Hazards: Not applicable.

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

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
PEL-TWA 15mg/m³ (OSHA, total) 5mg/m³ (OSHA, resp)
CAS# 7631-86-9

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

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity (Water=1):</td>
<td>0.64 - 0.72</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg):</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH:</td>
<td>8 - 11 (AS)</td>
</tr>
<tr>
<td>Vapor Density (Air=1):</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility in Water:</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate=1):</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Appearance &amp; Odor:</td>
<td>Off-White beads with no odor</td>
</tr>
</tbody>
</table>

Section 10 – Stability and Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper Flammable Limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Fire Fighting Instructions</td>
<td>Non-flammable</td>
</tr>
<tr>
<td>Flash Point Method:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower Flammable Limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Extinguishing Media:</td>
<td>Use extinguishing agent applicable to surrounding fire conditions.</td>
</tr>
<tr>
<td>Fire and Explosion Hazards:</td>
<td>None known.</td>
</tr>
</tbody>
</table>

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
LD₅₀: >5000 mg/Kg (oral, rat)

CAS# 7631-86-9
LD₅₀: >5510 mg/Kg (oral, rat)
LD₅₀: >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

<table>
<thead>
<tr>
<th>CAS #</th>
<th>USA TSCA</th>
<th>EU EINECS</th>
<th>KOREA ECL</th>
<th>CHINA IECSC</th>
<th>CANADA DSL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1318-02-1</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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.

The information contained herein is based on data considered to be accurate as currently available to the manufacturer. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Van Air Inc. assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Van Air Inc. assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes any and all risk in his or her use of the material. In no event shall Van Air Inc. be liable for any claims, losses, or damages of any Vendee or third party for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Van Air Inc. has been advised of the possibility of such damages by any and all forms of communication.