Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Sample Name: Molecular Sieve Type 3A
Company ID: Molecular Tek, Inc.
Address: 350 W Brazos Avenue, #1343, West Columbia, TX 77486 USA

Emergency Phone Number: 504-517-6223

Passed ISO9001 *Certification*
Passed ISO14001 *Environmental Management Systems*

Recommended Use: Used for adsorption, separation, and drying.
Restriction on Use: No information available.

Section 2 - Hazards Identification

Classification of the Chemical: This product is not classified as hazardous.
Label Elements: This product is not classified as hazardous.

Pictograms: No pictogram
Signal Word: No signal word
Hazard Statements: No hazardous statement
Precautionary Statements: No precautionary statement

Description of any Hazards not Otherwise Classified: No information available
Ingredient with Unknown Acute Toxicity: No information available

Section 3 - Composition Information of Ingredients

Chemical Name	Percent (by weight)	CAS Number
Silicon Oxide (synthetic)	< 60%	7631-86-9
Sodium Oxide	< 30%	1313-59-3
Aluminum Oxide	< 40%	1344-28-1
Potassium Oxide	< 15%	12136-45-7

Section 4 - First Aid Measures

Most Important Symptoms/Effects (acute and delayed)**:**
Inhalation: Cough
Ingestion: Abdominal pain
Eye Contact: Redness, pain
Inhalation: Seek fresh air, provide oxygen if needed, and get medical attention for any difficulty breathing. If exposed persons are not breathing, administer artificial respiration.
Ingestion: If consumed, seek immediate medical attention or advice.
Skin Contact: Immediately rinse skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothes and thoroughly clean before wearing again. Seek medical attention if irritation develops.
Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention if irritation persists.

Section 5 - Fire Fighting Measures

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire. Water with full jet is **UNSUITABLE** for extinguishing fire.
Special Hazards: No particular hazards known.
Special Protective Equipment for Firefighters: Firefighters must wear fire resistant protective equipment and a self-contained breathing apparatus.

Section 6 - Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Prevent contact with skin and eyes. In case of spills, sweep up and place in appropriate containers for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Section 7 - Handling and Storage

Keep in a tightly closed container and store in a cool, dry, ventilated area. Protect against physical damage. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking, and when leaving work. Minimize inhalation exposure of dust and fine particles. Remove contaminated clothing and shoes and wash thoroughly before reusing. Avoid dust production and use vacuum systems if dust is formed. Any unavoidable deposit of dust must be removed regularly. Keep packaging closed when not in use, store in a dry protected area to prevent moisture contact. Containers of this material may be hazardous when empty since they

retain product residues (dusts, solids); observe all warnings and precautions listed for this product. Prevent exposure to strong acids and strong bases.

Section 8 - Exposure Controls, Personal Protection

Permissible Exposure Limits:
CAS Number 1344-28-1: PEL-TWA 15 mg/m^3 (OSHA, total), 5 mg/m^3 (OSHA, resp)
CAS Number 7631-86-9: PEL-TWA 15 mg/m^3 (OSHA, total), 5 mg/m^3 (OSHA, resp), 5 mg/m3 (OSHA, fume)
TLV-TWA 6 mg/m^3 (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. Equip areas with safety showers and eye baths.
Personal Protective Equipment (PPE)

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Protective working clothing is suggested.
Respirators: It is suggested to use an appropriate respirator if there is dust in the air or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Form: Solid
Color: Tan
Odor: None
pH: 8~11 (AS)
Solubility: Soluble in acid or soda, insoluble in water
Density: 0.6~0.9 g/mL
Boiling Point/Range: Not applicable
Melting Point/Range: Not applicable
Decomposition Temperature: Not applicable
Ignition Temperature: Not applicable

Section 10 - Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products: Oxides of carbon and silicon may be formed when heated to decomposition.

Hazardous Polymerization: Will not occur.
Incompatibilities: Reacts with hydrogen fluoride, oxygen difluoride, chlorine trifluoride, strong acids, strong bases, and oxidizers.
Conditions to Avoid: Moisture, extreme heat, and incompatibilities.

Section 11 - Toxicological Information

No LD50/LC50 information found relating to routes of occupational exposure.

Cancer Lists

NTP Carcinogen

Ingredient	Known	Anticipated	IARC Category
Silica Gel (63231-67-4)	No	No	None

Section 12 - Ecological Information

Environmental Fate: When released into the soil, this material is not expected to biodegrade. When released into water, this material is not expected to biodegrade.
Environmental Toxicity: This material is not expected to be toxic to aquatic life.

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

Not regulated

Section 15 - Regulatory Information

Chemical Inventory Status - Part 1

Ingredient	TSCA	EC	Japan	Australia
Silica Gel (62321-67-4)	Yes	No	No	Yes

Chemical Inventory Status - Part 2

Ingredient	Korea	Canada DSL	Canada NDSL	Philippines
Silica Gel (62321-67-4)	Yes	No	No	Yes

Federal, State, & International Regulations - Part 1

Ingredient	SARA 203 - SARA 313 RQ	TPQ	List	Chemical Category
Silica Gel (62321-67-4)	No	No	No	No

Federal, State, & International Regulations - Part 2

Ingredient	RCRA - TSCA CERCLA	261.33	8(d)
Silica Gel (63231-67-4)	No	No	No

Chemical Weapons Convention	TSCA	CDTA
No	No	No

SARA 311/312

Acute	Chronic	Fire	Pressure	Reactivity
Yes	Yes	No	No	No (pure/solid)

Australian Hazchem Code: None allocated
Poison Schedule: None allocated
WHMIS: This SDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Section 16 - Additional Information

Issue Time: 2015-05-06
Issue Department: Technical Department
Date Review Unit: 2015-05-08
Modification Record: 2015-05-18

Other Information

Regional Representation: This information is given on the authorized Safety Data Sheet for your country.

----------END of SDS----------