

SAFETY DATA SHEET

Ref. Material Zeolite 5A

Date of Preparation: 06/24/2014

SDS #: 004-16847-00MSDS

SECTION 1: IDENTIFICATION

Product Identification: Molecular Sieve Activated, Type 5A, AlCaNaO4Si+2

CAS Number: Not applicable

Other Designations: Molecular Sieve Type 5A; Synthetic Zeolite; Sodium Calcium Silicoaluminate

Volumes: None

Recommended Use: Reference material.

Restrictions: For laboratory use only.

Supplier Information:

Micromeritics Instrument Corp.
4356 Communications Drive
Norcross, GA 30093-2901 USA

Contact: Human Resources
Phone: (770) 662-3636
Fax: (770) 662-3696

Manufacturer: Avantor Performance Materials, Inc. 3477 Corporate Parkway, Suite #200 Center Valley, PA 18034 USA Phone: 855-282-6867; 24 Hour Emergency: 908-859-2151; Chemtrec: 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Category 1 Skin sensitization

Signal word: Not Applicable

Hazard Statements:

H315: Causes skin irritation

H320: Causes eye irritation

Pictograms:



Precautionary Statements:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P262: Do not get in eyes, on skin, or on clothing

P280: Wear protective gloves/protective clothing/eye protection/face protection

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	% wt
Silicic Acid Aluminum Calcium Sodium Salt	1344-01-0	90-100%

Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
Molecular Sieve, Activated (1344-01-0)	none estab.	none estab.	1.0 mg/m ³	none estab.	0.05 mg/m ³	none estab.	none estab.

SECTION 4: FIRST-AID MEASURES

Inhalation: Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

Eye Contact: Wash out immediately with water. If easy to do, remove contact lenses.

Skin Contact: Wash off with soap and water.

Ingestion: Seek medical advice.

Note to Physicians: Treat symptomatically.

Special Precautions/Procedures: Get medical attention if irritation develops and persists

SECTION 5: FIRE-FIGHTING MEASURES

Flammability Classification: Not Applicable

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unusual Fire or Explosion Hazards: None

Hazardous Combustion Products: Not Applicable

Fire-Fighting Instructions: Not Applicable

Fire-Fighting Equipment: Wear self-contained breathing apparatus and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill /Leak Procedures: Keep unnecessary personnel away. Keep upwind. Ventilate the area. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Large Spills

Containment: If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Prevent entry into waterways, sewer, basements or confined areas.

Cleanup: Collect dust or particulates using a vacuum cleaner with a HEPA filter. Reduce airborne dust and prevent scattering by moistening with water.

Regulatory Requirements: Refer to Section 15 for reportable quantity and other regulatory data.

SECTION 7: HANDLING AND STORAGE

Handling Precautions: Keep formation of airborne dusts to a minimum. Do not breathe dust; do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Wash thoroughly after handling. See Section 8 for personal protective equipment.

Storage Requirements: Keep container tightly closed. Store in a well-ventilated area.

Regulatory Requirements: Not Applicable

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn.

Ventilation: Ventilation should be sufficient to remove and prevent buildup of dusts or fumes that may be generated during handling or thermal processing.

Administrative Controls: Not Applicable

Respiratory Protection: If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn. Respirator type: High-efficiency particulate respirator with full face piece.

Protective Clothing/Equipment: Use tight fitting goggles if dust is generated. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Safety Stations: Eye wash and safety equipment should be readily available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: Noncombustible

Flash Point Method: Not Applicable

Burning Rate: Not Applicable

Water Solubility: Negligible

Autoignition Temperature: Not Applicable

LEL: Not Applicable

UEL: Not Applicable

Physical State: Solid

Appearance and Odor: Tan or Grey to white, odorless

Odor Threshold: Not Applicable

Vapor Pressure: Not Applicable

Vapor Density (Air=1): Not Applicable

Formula Weight: Not Applicable

Density: Not Applicable

Specific Gravity (H₂O=1, at 4 °C): 2.1

pH: Not Applicable

Other Solubilities: Not Applicable

Boiling Point: Not Applicable

Freezing/Melting Point: Not Applicable

Viscosity: Not Applicable

Refractive Index: Not Applicable

Surface Tension: Not Applicable

% Volatile: Not Applicable

Evaporation Rate: Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal temperature conditions.

Polymerization: Hazardous polymerization does not occur.

Chemical Incompatibilities: Strong oxidizing agents. Chlorinated compounds. Ethylene Oxide.

Conditions to Avoid: Excessive heat.

Materials to Avoid: Strong oxidizing agents. Chlorinated compounds, Ethylene Oxide.

Hazardous Decomposition Products: None known.

SECTION 11: TOXICOLOGICAL INFORMATION

Eye Effects: Eye irritation.

Skin Effects: Skin irritation.

Acute Inhalation Effects: Irritation to the respiratory system.

Acute Oral Effects: Not Applicable

Chronic Effects: Frequent inhalation of dust over a long period of time increases the risk of developing diseases. May cause lung damage.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Teratogenicity: No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Environmental Fate: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Environmental Degradation: Not Available

Soil Absorption/Mobility: Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations. Incinerate the material under controlled conditions in an approved incinerator.

Disposal Regulatory Requirements: Material does not have an EPA Waste number and is not a listed waste; however, consultation with a permitted waste disposal site (TSD) should be accomplished. ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE, AND FEDERAL RESULATIONS

Container Cleaning and Disposal: Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14: TRANSPORT INFORMATION

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Not regulated

Shipping Symbols: Not Applicable

Hazard Class: Not regulated

ID No.: Not regulated

Packing Group: Not Applicable

Label: Not Applicable

Special Provisions (172.102):

Not Applicable

Packaging Authorizations

a) **Exceptions:** Not Applicable

b) **Non-bulk Packaging:** Not Applicable

c) **Bulk Packaging:** Not Applicable

Quantity Limitations

a) **Passenger, Aircraft, or Railcar:** Not Applicable

b) **Cargo Aircraft Only:** Not Applicable

Vessel Stowage Requirements

a) **Vessel Stowage:** Not Applicable

b) Other: Not Applicable

Canadian TDG Hazard Class & PIN – Not regulated

SECTION 15: REGULATORY INFORMATION

EPA Regulations: Not Applicable

OSHA Regulations: This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA (Superfund) Reportable Quantity: None

SARA Hazard Categories:

- Immediate Hazard - Yes
- Delayed Hazard - Yes
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No
- Section 311 Hazardous Chemical – Yes

Safe Drinking Water Act (SDWA): Contaminate candidate list.

State Regulations: This product does not contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

US-Pennsylvania RTK – Hazardous Substances: Listed substance

Silicic Acid Aluminum Calcium Sodium Salt Listed.

(CAS 1344-01-0)

TSCA Inventory: All components of this product comply with the inventory requirements administered by the governing country(s).

SECTION 16: OTHER INFORMATION

Prepared By: Zuniga, A.

Revision Notes: Not Applicable

Additional Hazard Rating Systems: Not Applicable

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