

SAFETY DATA SHEET

Ref. Material Zeolite 5A

Date of Preparation: 10/10/2019

SDS #: 004-16847-00MSDS

SECTION 1: IDENTIFICATION

Product Identification: Molecular Sieve Activated, Type 5A, $\text{AlCaNaO}_4\text{Si}^{+2}$

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

Category 3 Specific organ toxicity – Single exposure (lungs)

Category 1 Specific organ toxicity – Repeated exposure (lungs)

Signal word: Danger

Hazard Statements:

H315: Causes skin irritation

H320: Causes serious eye irritation

H335: May cause respiratory irritation

H372: Causes damage to organs through prolonged or repeated exposure

Pictograms:



Precautionary Statements:

P260: Do not breathe dust/fume/gas/mist/vapors/spray

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

P314: Get medical advice/attention if you feel unwell

P501: Dispose of contents/container in accordance with local/regional/national/international regulations

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

SECTION 4: FIRST-AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Treat symptomatically. Get medical attention if symptoms persist.

Eye Contact: Wash out immediately with plenty of water, also under the eyelids, for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Skin Contact: Wash off with soap and water for at least 15 minutes. Get medical attention.

Ingestion: Do not induce vomiting. 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: 0

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

Specific Hazards Arising from the Chemical: Keep product and empty container away from heat and sources of ignition.

Fire-Fighting Instructions: Not Applicable

Fire-Fighting Equipment: Wear self-contained breathing apparatus that is MSHA/NIOSH approved 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. Avoid dust formation. 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. Avoid dust formation.

Large Spills

Containment: If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Avoid dust formation. 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 under a chemical fume hood. Wash thoroughly immediately after handling and before breaks. See Section 8 for personal protective equipment.

Storage Requirements: Keep container tightly closed. Store in a dry, cool and well-ventilated area.

Regulatory Requirements: Not Applicable

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

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.

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.

Eye/Face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Protective Clothing/Equipment: Wear appropriate protective gloves and clothing to prevent repeated or prolonged skin contact.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

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

Autoignition Temperature: Not Applicable

LEL: Not Applicable

UEL: Not Applicable

Physical State: Solid

Water Solubility: Insoluble in water

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

Reactivity: None known.

Stability: Stable under normal temperature conditions.

Polymerization: Hazardous polymerization does not occur.

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

Conditions to Avoid: Avoid dust formation and incompatible products.

Materials to Avoid: Strong oxidizing agents.

Hazardous Reactions: None under normal processing.

Hazardous Decomposition Products: None known.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available

Inhalation: No data available

Dermal: No data available

Acute Effects:

Eye: Irritation

Inhalation: Respiratory tract irritation

Oral: Not Applicable

Skin: Irritation

Respiratory or skin sensitization: No data available

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.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified

Mutagenicity: No data available.

Teratogenicity: No data available.

Reproductive Toxicity: No data available

Specific Target Organ Toxicity – Single Exposure: Respiratory tract irritation

Specific Target Organ Toxicity – Repeated Exposure: Causes damage to Lungs

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Do not empty into drains. 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

Bioaccumulation: No 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 REGULATIONS

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

TSCA 12(b): Not Applicable

OSHA Regulations: Not Applicable

CERCLA (Superfund) Reportable Quantity: None

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:

Chemical identity	Threshold Planning Quantity
SILICIC ACID ALUMINUM	500 lbs
CALCIUM SODIUM SALT	

Clean Water Act (CWA): Not Applicable

Clean Air Act: Not Applicable

State Regulations:

California Proposition 65: This product does not contain any Proposition 65 chemicals.

New Jersey Worker and Community Right-to-Know Act: No ingredient regulated by NJ Right-to-Know Law present.

Massachusetts RTK - Substance List: No ingredient regulated by MA Right-to-Know Law present.

Pennsylvania RTK - Hazardous Substances: SILICIC ACID ALUMINUM CALCIUM SODIUM SALT
Listed

US. Rhode Island RTK: No ingredient regulated by RI Right-to-Know Law present.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

Inventory Status:

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	On or in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	Not in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

SECTION 16: OTHER INFORMATION

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Revision Notes:

Rev. A – Update to new standard (10/29/14)

Rev. B – Update to EU REACH requirements (07/08/19)

Abbreviations Key:

CAS: Chemical Abstracts Service

GHS: Globally Harmonized System

OSHA: Occupational Safety and Health Act

PEL: Permissible Exposure Limit

ACGIH: American Conference of Government Industrial Hygienists

TLV: Threshold Limit Values

NIOSH: National Institute for Occupational Safety and Health

REL: Recommended Exposure Limit

TWA: Time Weighted Average

STEL: Short-Term Exposure Limit

IDLH: Immediately Dangerous to Life or Health

Literary References:

Avantor Molecular Sieve, Activated SDS

<https://www.fishersci.com/shop/msdsproxy?productName=M521500>

Additional Hazard Rating Systems: Not Applicable

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