

■ SIGNAL WORD: WARNING H335: May cause respiratory irritation (dust). Generates heat on contact with water.

SECTION 1: IDENTIFICATION

Product Name	Molecular Sieve Beads 4A
CAS Number	1344-00-9
Synonyms	Zeolite 4A; Zeolite Type A; Sodium Aluminosilicate; Molecular Sieve Type 4A
Product Use	Desiccant; drying of gases and liquids; ethanol dehydration; removal of water, CO2, and H2S
Restrictions	For professional/industrial use only.
Supplier	Cannagas Supply 97 Turnpike Rd, Westborough, MA 01581
Phone	877-710-1965
Email	Sales@canna-gas.com
Emergency Phone	CHEMTREC: 1-800-424-9300 (24-hour)
SDS Revision Date	March 2026

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification	STOT SE Category 3 (H335 — respiratory irritation from dust)
Signal Word	WARNING
Hazard Statements	H335: May cause respiratory irritation.
Precautionary – Prevention	P260: Do not breathe dust. P271: Use only in well-ventilated area. P280: Wear protective equipment.
Precautionary – Response	P304+340: IF INHALED — remove to fresh air. P312: Call physician if unwell.
Precautionary – Storage	P405: Store in sealed, dry containers. Keep away from water and moisture.
Precautionary – Disposal	P501: Dispose in accordance with local/regional/national regulations.
Other Hazards	GENERATES HEAT on contact with water — exothermic hydration. Allow to cool before sealing after use.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Concentration	EC Number
Sodium Aluminosilicate (Zeolite 4A)	1344-00-9	≥95%	215-669-2
Clay binder (typical)	1302-78-9	<5%	215-108-5

Synthetic zeolite with 4 Å pore size. Selectively adsorbs molecules ≤4 Å diameter (water, methanol, ethanol, H2S, CO2). All components on TSCA Inventory.

SECTION 4: FIRST-AID MEASURES

Inhalation	Remove to fresh air. Seek medical attention if irritation persists.
Skin Contact	Wash with soap and water. Treat thermal burns from hot/freshly activated material.
Eye Contact	Rinse with water for at least 15 minutes. Seek medical attention.
Ingestion	Call physician. Do not induce vomiting.
Key Symptoms	Respiratory/eye irritation from dust. Thermal burn risk from heat of hydration.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water, CO2, dry chemical.
Specific Hazards	Non-combustible. No explosion sensitivity.
Protective Equipment	Self-contained breathing apparatus (SCBA) and full protective gear for structural firefighters.
Flash Point	Not applicable
Autoignition Temperature	Not applicable
Flammable Limits (LEL/UEL)	Not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	Dust mask, safety glasses, gloves.
Environmental Precautions	Do not allow to enter drains, sewers, surface or ground water.
Containment & Cleanup	Sweep or vacuum. Avoid dust. Transfer to sealed containers.

SECTION 7: HANDLING AND STORAGE

Safe Handling	Keep dry. Avoid dust generation. Wear PPE. Allow to cool before sealing.
Safe Storage	Tightly sealed containers in cool, dry area. Keep from water, acids, and bases.
Incompatibles	Water/moisture (exothermic). Strong acids and bases.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Limit Type	Value	Authority
Synthetic Aluminosilicate (dust)	TWA (inhalable)	10 mg/m ³	ACGIH (PNOC)
Synthetic Aluminosilicate (dust)	TWA (respirable)	3 mg/m ³	ACGIH (PNOC)

Engineering Controls	Local exhaust ventilation where dust generated.
Eye/Face Protection	Safety glasses.
Hand Protection	Appropriate protective gloves.
Body Protection	Lab coat or overalls.
Respiratory Protection	N95 dust respirator where dust generated.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	White/grey beads or pellets	Bulk Density	~0.60–0.75 g/mL
Odor	Odorless	Solubility	Insoluble in water
Pore Size	4 Å (0.4 nm) — adsorbs molecules ≤4 Å	Vapor Pressure	Not applicable (solid)
pH (slurry)	~10–11 (alkaline)	Melting Point	>800°C
Flammability	Non-flammable	Thermal Note	Exothermic on water contact
Flash Point	Not applicable	VOC Content	None

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Exothermic with water.
Chemical Stability	Stable under recommended storage conditions.
Hazardous Polymerization	Will not occur.

Conditions to Avoid	Moisture, water, strong acids, strong bases.
Incompatible Materials	Water/moisture (exothermic). Strong acids and bases.
Hazardous Decomp. Products	No hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Exposure	Inhalation (dust), skin, eye contact.
Acute Toxicity	Low acute toxicity expected.
Skin/Eye Effects	Mechanical/alkaline irritation. Thermal burn risk from freshly activated material.
Respiratory Effects	H335 — respiratory irritation from dust.
Carcinogenicity	Not classified as carcinogenic.
STOT – Single Exp.	STOT SE Cat 3 — H335.
STOT – Repeated Exp.	No specific data.
Reproductive Toxicity	Not classified.
Chronic Effects	No specific chronic effects identified.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Low environmental risk expected.
Persistence/Degradability	Not biodegradable. Stable inorganic mineral.
Bioaccumulative Potential	Not bioaccumulative.
Mobility in Soil	No specific data.
Other Adverse Effects	Avoid release to environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods	Solid waste disposal per applicable regulations.
Contaminated Packaging	Dispose in accordance with applicable regulations.

SECTION 14: TRANSPORT INFORMATION

	DOT (USA)	IATA (Air)	IMDG (Sea)
UN Number	Not regulated	Not regulated	Not regulated
Proper Ship. Name	Not regulated	Not regulated	Not regulated
Hazard Class	N/A	N/A	N/A
Packing Group	N/A	N/A	N/A

SECTION 15: REGULATORY INFORMATION

OSHA HazCom	Dust nuisance hazard per OSHA.
SARA 311/312	Acute Health: Yes Chronic Health: No Fire: No Reactivity: No
CERCLA	No reportable quantity.
TSCA	All components listed on US TSCA Inventory.
California Prop. 65	Not listed.
Canadian DSL	All components listed on Canadian DSL Inventory.

SECTION 16: OTHER INFORMATION

Issue Date March 2026

Version 1.0

Prepared By Cannagas Supply

Key Sources GHS Purple Book Rev. 9; OSHA HazCom 2012; NIST SDS data.

DISCLAIMER: The information in this Safety Data Sheet is believed to be accurate and represents the best information currently available to Cannagas Supply. This SDS is provided in good faith without warranty of any kind. Users are responsible for determining suitability of this product for their specific application and for compliance with all applicable laws and regulations.