

SAFETY DATA SHEET

Creation Date 10-APR-2016 Revision Date 24-March-2021 Revision Number 3

1. Identification

Product Name: 4A Molecular Sieve – Beads, Pellets, or Powder

Supplier Name: Transo-Pharm USA, LLC

Address: 716 Dekalb Pike, #329

Blue Bell, PA 19422

Telephone Number: (610) 278–9751 Fax Number: (610) 278–9761

Emergency Telephone Number: (610) 278–9751

2. Hazard Identification

2.1GHS classification in accordance with 29 CFR 1910 (OSHA HCS)

Respiratory sensitization (Category 1), H334
Skin sensitization (Category 1), H317
Reproductive toxicity (Category 1B), H360
Acute aquatic toxicity (Category 2), H401
Carcinogenicity (Category 2), H351
Chronic aquatic toxicity (Category 3), H412

2.2 GHS label elements, including precautionary statements

Pictogram:



Signal Word: Danger

Hazard statement(s)		
H317	May cause allergic skin reaction	
H334	May cause allergy or asthma symptoms or breathing	
	difficulties if inhaled	
H351	Suspected of causing cancer	
H360	May damage fertility or the unborn child	
H401	Toxic to aquatic life	
H420	Harmful to aquatic life with long lasting effects	
Precautionary Statements		
P201	Obtain special instructions before use	
P202	Do not handle until all safety precautions have been read and	
	understood.	
P261	Avoid breathing dust	
P271	Use only outdoors or in a well-ventilated area	
P272	Contaminated work clothing should not be allowed out of the	
	workplace.	
P273	Avoid release to the environment	
P280	Wear protective gloves/protective clothing/eye	
	protection/face protection.	
P285	In case of inadequate ventilation wear respiratory protection	
P302+P352	IF ON SKIN: Wash with plenty of water and soap	
P304+P341	IF INHALED: If breathing is difficult, remove person to fresh	
	air and keep at rest in position comfortable for breathing.	
P308+P313	IF EXPOSED OR CONCERNED: Get medical advice.	
P333+P313	If skin irritation or rash occurs: Get medical advice	
P363	Wash contaminated clothing before reuse	
P501	Dispose of contents/container to an approved waste disposal	
	plant in accordance with local regulation(s)	
	_	

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS None

3. Composition/Information – Ingredients

Product Name 4A Molecular Sieve

Chemical Formula Na12[(AIO2)12] H2)

CAS # 1344-009

Composition Silicon Dioxide (7631–86–9) <50%

Magnesium Oxide (1309–48–4) <5% Aluminum Oxide (1344–28–1) <30% Sodium Oxide (1313–59–3) <30%

Ingredient **CAS Registry Number** Typical % **OSHA** Υ **Zeolites** 1318-02-1 >90% By Wt. Kaolin 1332-58-7 0-10% By Wt. Υ Bentonite Clay 1302-78-9 0-10% By Wt. Υ Clay, attapulgite 12174-11-7 0-10% By Wt. Υ 14808-60-71 <0.2% By Wt. Υ Quartz

This substance(s) marked with "Y" is the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This material is classified as hazardous under Federal OSHA regulation.

This product complies with TSCA inventory requirements. For chemical identity purposes, TSCA considers Zeolites as crystalline aluminosilicates consisting of a mixture of silicon oxide (CAS # 7931-86-9) and aluminum oxide (CAS# 1344-28-1) in various proportions with metallic oxides.

4. First Aid Measures

4.1 Description of first aid measures

Inhalation: Move the person to fresh air immediately. For breathing difficulties oxygen may be required. If breathing stops, provide artificial respiration. Get medical attention if discomfort continues

Ingestion: Rinse mouth thoroughly, drink plenty of water. Get medical attention if symptoms appear

Skin Contact: Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation persists after washing

Eye Contact: Immediately flush with water for up to 15 minutes. Remove any contact lenses and open eyes wide. Continue for 15 minutes. Get medical attention if discomfort continues

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media The product is nonflammable. Use fire extinguishing media appropriate for surrounding
- 5.2 Special hazards arising from the substance or mixture

Fire Hazards None known

Explosion Hazard Not Applicable

5.3 Advice for Firefighters Not Applicable

Protective Measures: Self-contained breathing apparatus and full protective clothing should be worn in case of fire

6. Accidental Release Measures

- 6.1 Personal Precautions: Wear protective gloves and proper respiratory equipment. Avoid inhalation of dust
- 6.2 Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment to be avoided
- 6.3 Containment & Clean Up: Use Vacuum, shovel, or broom. Avoid formation of dust. Dampen spillage area with water if necessary. Comply with local disposal regulations after clean up.

7. Handling and Storage

7.1 Usage Precautions: Avoid spilling, making skin or eye contact, or

dust inhalation. Do not eat, drink, or smoke

when using product

7.2 Storage Precautions: Store in a tightly closed original container cool dry and well-

ventilated place.

8. Exposure Controls/Personal Protection

8.1 Exposure Controls / Personal Protection

Silica Gel (SiO2) 7631-86-9 OSHA PEL - (Vacated) TWA 6 mg/m3

8.2 Appropriate Engineering Controls Use process enclosures, local exhaust ventilation, or other

engineering controls to keep airborne levels below

recommended exposure limits. If user operations generate

dust, fume, or mist use ventilation to keep exposure to

airborne contaminants below the exposure limit.

Handle in accordance with good industrial

hygiene and safety practices. Wash hands when handling.

8.3 Protective Equipment Provide general and local exhaust ventilation

Respiratory Equipment Proper respiratory equipment should be available to

employees handling the product

Hand Protection Gloves should be available to employees handling the product

Eye Protection Safety glasses are recommended but not required

Hygiene Measures Wash hands at the end of the work shift and prior to eating,

drinking, or smoke breaks

Process Conditions Provide eyewash station

9. Physical and Chemical Properties

9.1 Physical and Chemical Properties

10.6

Boiling Point: N/A
Vapor Pressure (mm Hg): N/A
Vapor Density (AIR=1): N/A

Water Solubility: Insoluble

Appearance: Light tan beads or powder

Specific Gravity: 2.10 Melting Point: N/A Evaporation Rate (Butyl Acetate = 1): N/A Bulk Density (kg/m3): N/A

Hazardous Decomposition Products

Odor: Odorless

10. Stability and Reactivity

10.1	Reactivity	No data available
10.2	Stability	Product is stable under normal temperature conditions and
		recommended use
10.3	Hazardous Reaction	No data available
10.4	Conditions to Avoid	This product is incompatible with powerful, Alkali
		metals, strong oxidizing agents.
10.5	Incompatible Materials	Water contact with product, steam, or water mixtures

No data available

11. Toxicological Information

11.1 Information on toxicological effect

Acute Toxicity

Inhalation Dust may irritate respiratory system or lungs. May have

long term dust effects.

Ingestion May cause discomfort if swallowed

Skin Contact May cause skin irritation

Eye Contact May irritate the eyes

Oral LD50 Based on ATE Data, classification criteria

are not met, ATE > 2,000 mg/kg

Dermal LD50 Based on ATE Data, classification criteria

are not met, ATE > 2,000 mg/kg

Mist LC50 Based on ATE Data, classification criteria

are not met, ATE > 5 mg / l

Irritation No data available
Development affects No data available

Sensitization May cause sensitization by inhalation

and skin contact

Carcinogenicity Notation below indicates whether each

agency

Has listed the ingredient as a carcinogen.

Silicon Dioxide (7631–86–9) IARC (Not Listed), NTP (Not Listed), ACGIH (Not Listed),

OSHA (Not Listed), Mexico (Not Listed)

Magnesium Oxide (1309-48-4) IARC (Not Listed), NTP (Not Listed), ACGIH (Not Listed),

OSHA (Not Listed), Mexico (Not Listed)

Aluminum Oxide (1344-28-1) IARC (Not Listed), NTP (Not Listed), ACGIH (Not Listed),

OSHA (Not Listed), Mexico (Not Listed)

Sodium Oxide (1313-59-3) IARC (Not Listed), NTP (Not Listed), ACGIH (Not Listed),

OSHA (Not Listed), Mexico (Not Listed)

Reproductive Toxicity No data available Developmental affects No data available

STOT – single exposure No data available STOT – repeated exposure No data available Aspiration Hazard No data available

12. Ecological Information

12.1 Toxicity
12.2 Persistence & Degradability
12.3 Bioaccumulative potential
12.4 Mobility in soil
No data available
No data available

12.5 Results of PBT and vPvB LC50, 96 Hours Fish mg/l > 10,000

EC50, 48 hours, DAPHNIA mg/l > 10,000

12.6 Other Adverse Affects Can be harmful to aquatic life – long term affects

13. Disposal Considerations

13.1 Waste Treatment Methods The material and its container must be disposed of in

compliance with local regulations.

14. Transport Information

DOT (USA) This product is not covered by international regulation on

transport of dangerous goods (IMDG, IATA, ADR, RID)

IMDG This product is not covered by international regulation on

transport of dangerous goods (IMDG, IATA, ADR, RID)

Transport Hazard Class This product is not covered by international regulation on

transport of dangerous goods (IMDG, IATA, ADR, RID)

15. Regulation Information

15.1 Federal and state regulations:

SARA 302 Components No Chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 311/312 Hazards Chronic health hazard

Massachusetts Right to Know Components Silica-Amorphous, precipitated

CAS-No.: 112926-00-8

Revision date: 1993-04-24

Pennsylvania Right to Know Components Silica-Amorphous, precipitated

CAS-No.: 112926-00-8

Revision date: 1993-04-24

New Jersey Right to Know Components Silica-Amorphous, precipitated

CAS-No.: 112926-00-8

Revision date: 1993-04-24

California Proposition 65 Components This product does not contain any chemicals known

to the State of California to cause cancer, birth

defects, or any other reproductive harm.

Toxic Control Substances Act (TSCA) Listed on the TSCA Inventory

DOT Classification Not a DOT controlled material (United States)

15.2 Other Classifications

HMIS (U.S.A.)

Health hazard 1
Fire hazard 0

Reactivity 0

Personal protection E

National Fire Protection Association (U.S.A)

Health 1 - SLIGHT Hazard

Flammability 0 - Normal Material Reactivity 1 - SLIGHT Hazard

GHS USA

Classification System

Health Rating: 5 - Minimal Hazard
Flammability Rating: 5 - Minimal Hazard
Reactivity Rating: 5 - Minimal Hazard
Contact Rating: 4 - SLIGHT Hazard

Storage Color Code: Green - Minimal Hazard

Toxic Control Substances Act (TSCA)

This product complies with all applicable rules or orders under the Toxic Control Substances Act (TSCA).

16. Other Information

16.1 Preparation Date: June 1, 2015

Revision Number: 3

16.2 Warranty: This information contained herein is based upon data

considered true and accurate. However, Transo-Pharm USA, LLC makes no warranties, express or implied, as

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