

MATERIAL SAFETY DATA SHEET

I. Identification of Substance:		Company Information:	
Company Name: Tranzo-Pharm USA, LLC		Product Name: 4A Molecular Sieve	
Street: 1301 Skippack Pike, Suite 7A, # 329		Date Prepared: January 2, 2007	
City, State, Zip Code: Blue Bell, PA 19422		Prepared by: Hugh Bowerman	
Phone: (610) 278-9751		Emergency Number: (800) 262-8200	
II. COMPOSITION/INFORMATION:			
Material or Component: Sodium Aluminosilicate 4A, Zeolite 4A Chemical Name: 4A Molecular Sieve Component: Silicon Dioxide (7631-86-9) < 50 % Sodium Oxide (1313-59-3) < 30 % Aluminum Oxide (1344-28-1) < 30 % Magnesium Oxide (1309-48-4) < 5 %		Hazard Data: - Non Hazard: CAS# 1344-00-9 Formula: $Na_{12}[(AlO_2)_{12}] \cdot H_2O$	
III. PHYSICAL DATA			
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/m ³): N/A Odor: Odorless	
IV. FIRE AND EXPLOSION HAZARD DATA			
Flash Point: N/A	Flammable Limits: Non-flammable	LEL: N/A	UEL: N/A
Extinguishing Media: Use media appropriate for surrounding fire			
Explosion: Contact with moisture may generate sufficient heat to ignite combustible materials			
Specific Hazards: Used product may contain retained chemicals, inform fire fighters			

V. HEALTH HAZARD INFORMATION

Emergency overview

Caution – may cause irritation – Skin and eye irritant

Health Rating – 0 – None

Flammability rating – 0 - None

Reactivity rating – 0 – None

Contact Rating – 1 – Slight

Storage Color Code – Orange (General Storage

Potential Health Effects:

Inhalation:	Irritation of upper respiratory tract possible
Skin Absorption:	N/A
Skin Contact:	Irritation
Eye Contact:	Irritation
Ingestion:	N/A

Signs and Symptoms of Exposure: N/A

Effects of Overexposure

Acute Exposure: N/A

Chronic Exposure: N/A

Aggravation of Pre-existing conditions – No information found

Medical Conditions Aggravated by Exposure: Breathing of dust may aggravate asthma

Emergency and First Aid Procedures

Eyes: Flush w/water for 15 minutes then consult physician

Inhalation: Remove exposed person to fresh air, consult physician

Skin: Wash with soap and water for at least 15 minutes.

Ingestion: Administer plenty of water, consult physician

General recommendations: Avoid breathing dust and direct contact with skin

VI. REACTIVITY DATA

Stability: Stable under ordinary conditions

Hazardous decomposition: N/A

Hazardous Polymerization: Will Not Occur:

Conditions to Avoid: Moisture

Hazardous Decomposition Products: N/A

VII. SAFE HANDLING AND USE

Handling: Keep container tightly closed. Suitable for general chemical storage area. Containers of this material may become hazardous since they retain product residues, dusts, solids; observe all warnings and precautions listed for the product.

Accidental release procedure: Wear protective clothing, sweep up and remove

Waste Disposal Method:

Comply with local regulations for non-hazardous chemical disposal.

VIII. SPECIAL PROTECTION AND CONTROL METHODS	
Respiratory: NIOSH approved dust mask when working with powder.	Ventilation: Dilution ventilation is a satisfactory health hazard control for this substance
Skin Protection : Wear protective gloves	Eye Protection: Safety goggles recommended
Airborne Exposure Limits: None established	
Other Protective Clothing or Equipment: N/A	
IX. Toxicological Information:	
LD50-Oral:	No information available
LS50-Skin:	No information available
LD50-Inhalation:	No information available
Irritation (Skin/Eyes):	No information available
Chronic toxicity: Acute eye, skin, and respiratory tract irritation	
Chronic Inhalation: The drying action of this product can cause irritation of the mucous membranes of the nose and throat. Avoid prolonged breathing of dust	
X. Ecotoxicological Information:	
LC50 Fish:	No information available
LC50-Daphnia:	No information available
XI. TRANSPORTATION AND SHIPPING REQUIREMENTS	
D.O.T. Shipping Name: N/A	
D.O.T. Hazard Classification: non-hazardous	
D.O.T. Labels Required: None	
Hazardous Waste: None	
XII. 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 regulations. Dispose of container and unused contents in accordance with local, state, and federal regulations.	
OTHER INFORMATION:	
The information presented herein has been compiled from sources considered to dependable and is accurate to the best of our knowledge. Since conditions of use are beyond our control, we take no warranties expressed or implied, except those that may be contained in a written contract of sale or acknowledgement.	