MATERIAL SAFETY DATA SHEET

MOLECULAR SIEVE 4A

Emergency Telephone Number: 800-424-9300

The following information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations or mixtures, one must confirm the no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment. (Unless noted to the contrary, the technical information applies only to pure products.)

1. IDEN	ITIFICATION
1.1 Product Name:	Molecular Sieve 4A
1.2 Chemical Name:	Molecular Sieve
1.3 Synonyms:	Aluminosilicate 4 A, Zeolite 4A
1.4 Trade Names:	None
1.5 Formula:	Na2 Al203 2SiO2 XH20
1.6 Molecular Weight	285
1.7 CAS Number	1344-00-9
1.8 EINECS Number	

2. COMPOSITION/INFORMATION ON INGREDIENTS		
Chemical Name:	Sodium aluminum silicate	
Percent	100%	
CAS Number:	1344-00-9	
ACGIH TLV (1992-1993):	Not established	
OSHA Pel:	Not established	
Niosh (RTECS) Number:	1000369SS	

3. HAZARD IDENTIFICATION

4. FIRST AID MEASURES	
4.1 Routes of Exposure:	Inhalation? Skin? Ingestion?
4.2 Effects:	May cause irritation or caustic burns
	on skin in presence of moisture.
4.2.1 Inhalation:	Yes
4.2.2 Eyes:	Yes
4.2.3 Skin:	No
4.2.4 Ingestion:	No

4.3 Regulatory/Carcinogencity		
NTP?:	No	
IARC?:	No	
OSHA?:	No	
-		

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

- 4.5 First Aid:
- 4.5.1 Inhalation: Remove to fresh air. Consult a physician.
- 4.5.2 Eye Contact: Flush with plenty of water for at least 15 minutes. Consult a physician.
- 4.5.3 Skin Contact: Flush with plenty of water for at least 15 minutes. Consult a physician.
- 4.5.4 Ingestion: If swallowed, drink two glasses of water. Induce vomiting. Consult
- a physician. Never give anything by mouth to an unconscious person.
- 4.6 General Recommendation: Avoid breathing dust or contact with skin. Avoid material contact with water.
- 4.7 Medical Appendix: In case of skin burns use procedure for caustic burns.

5. FIREFIGHTING MEASURES

- 5.1 Common Extinguishing Methods: Use media appropriate for surrounding fire.
- 5.2 Inappropriate Extinguishing Methods: Unknown.
- 5.3 Specific Hazards: Used product may contain products of a hazardous nature.

Inform fire fighters of hazards of retained chemicals.

- 5.4 Protective Measures in Case of Intervention: When exposed to water, product
- will get hot. Flood with water to reduce to sage temperature.
- 5.5 Other Precautions: None

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Individual and Collective Precautions: Wear suitable personal protective equipment.
- 6.2 Cleaning Methods: Sweep up, minimizing dusting and place in appropriate container. Dispose in accordance with all local, state and federal regulations.
- 6.3 Precautions for Protecting the Environment: Solid waste disposal.

7. HANDLING AND STORAGE

- 7.1 Handling: Wear suitable personal protective equipment. Avoid dusting.
- 7.2 Storage: Store in cool, dry, well-ventilated location.
- 7.3 Packaging: Keep container closed.
- 7.4 Other Precauions: Use good work hygiene practices. Wash thoroughly after use and before eating, drinking or smoking. Vacuum up any dust. Launder clothing before reuse.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Engineering Controls:
- 8.2 Respiratory Protection: Niosh approved dust mask
- 8.3 Hand Protection: Rubber/Plastic gloves
- 8.4 Eye Protection: Safety glasses/goggles
- 8.5 Skin Protection: Wear adequate protective equipment to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES		
9.1 Appearance: Light tan spherical	9.2 Odor: No odor	
beads.		
9.3 PH: N/A	9.4 Boiling Point/Range: N/A	
9.5 Melting Point/Range: N/A	9.6 Flash Point: N/A	
9.7 Flammability: N/A	9.8 Autoignition Temperature: None	
9.9 Danger of Explosion: None	9.10 Combustible Characteristics: N/A	
9.11 Vapor Pressure: N/A	9.12 Vapor Density (Air=1): N/A	
9.13 Specific Gravity (H20=1): Varies	9.14 Solubility:	
	Water: Insoluble	
	Other Solvents: N/A	
	Lipid Solubility: N/A	
9.15 Viscosity: N/A	9.16 Decompostion Temperature: N/A	
9.17 Partition Coefficient p (n-	9.18 Other Data:	
octanol/water):		

10. STABILITY AND REACTIVITY

10.1 Stability: Yes

10.2 Conditions to Avoid: Addition of water without flooding will generate heat and

can cause skin burn.

10.3 Materials to Avoid: No information available.10.4 Hazardous Decomposition Products: none

10.5 Other Information:

11. TOXICOLOGICAL INFORMATION	
11.1 Acute Toxicity:	
11.1.1 LD50-oral	No Information Available
11.1.2 LD50-skin	No Information Available
11.1.3 LD50-inhalation	No Information Available
11.1.4 Irritation (skin, eyes):	No Information Available

11.1.5 Sensitization:	N/A
11.2 Chronic Toxicity: Acute: Eye,	Skin and respiratory tract irritation.

Inhalation: Chronic: The drying action of this product can cause irritation of the mucous membranes of the nose and throat and irritation of the skin. Avoid prolonged breathing of dust.

12. EXOTOXICOLOGICAL INFORMATION		
12.1 Acute Toxicity:		
12.1.1 LC50 - fish:	No Information Available	
12.1.2 LC50- daphnia:	No Information Available	
12.2 Environmental Behavior:		
12.2.1 Mobility:	N/A	
12.2.2 Persistence	N/A	
12.2.3 Degradation:	N/A	
Abiotic:	N/A	
Biotic:	N/A	
12.2.4 Potential for Bioaccumulation	N/A	

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment: Dispose in accordance with all local, state, and federal regulations.

13.2 Packaging Treatment:

14. TRANSPORT

14.1 UN Number: None 14.2 Classification Label Required: None

Not regulated for the following mode of transportation: DOT, IMO, IATA Emergency response number: 24-Hour contact Chemtree 800-424-9300

15. REGULATORY INFORMATION

15.1 EEC Labeling:

15.2 NFPA/HMIS Labeling:

15.2.1 NFPA:

Fire: 0
Health: 1
Reactivity: 1

15.2.2 HMIS

Health: 1 Flammability: 0 Reactivity: 0

Personal Protection:

15.3 Authorized Limit Value:

15.3.1 TLV (ACGHIH) - TWA:
NOT ESTABLISHED
15.3.2 PEL (OSHA)-PEL:
NOT ESTABLISHED

15.3.3 Other:

15.4 Other Regulations:

16. OTHER INFORMATION

16.1 Edition Date: June 1995 16.2 Revision Number: 2 16.3 Updated: May 2005