



Material SAFETY DATA SHEET

(M.S.D.S)

Molecular Sieve 4A Bead

1. Product Identification

Molecular Formula: $\text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot 2.0\text{SiO}_2 \cdot 4.5\text{H}_2\text{O}$

Synonyms: Zeolite, Sodium Aluminosilicate

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2. Composition/Information on Ingredients

| Ingredient | CAS No | Percent | Hazardous |
|-----------------|-------------|---------|-----------|
| Aluminosilicate | 1318-02-1 | 70-80% | Yes |
| Mineral Binder | 999999-99-4 | 20-30% | No |

3. Hazards Identification

Emergency Overview

CAUTION! MAY CAUSE IRRITATION. CAUSES EYE AND SKIN IRRITATION.

Health Rating: 0 – None

Flammability Rating: 0 – None

Reactivity Rating: 0 – None

Contact Rating: 1 – Slight

Lab Protective Equip: GOGGLES; LAB COAT

Potential Health Effects

Inhalation: Irritation of upper respiratory tract.

Ingestion: None identified.

Skin Contact: Irritation.

Eye Contact: Irritation.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: No information found.

4. First Aid Measures

Inhalation: If a person breathes in large amounts, move the exposed person to fresh air.

Ingestion: If large amounts were swallowed, give water to drink and get medical advice.

Skin Contact: In case of contact, immediately wash skin with plenty of soap and water for at least 15 minutes.

Eye Contact: In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

5. Fire Fighting Measures

Fire:

Not expected to be a fire hazard.

Explosion:

Contact with moisture or water may generate sufficient heat to ignite combustible materials.

Fire Extinguishing Media:

Use extinguishing media appropriate for surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and authenticated self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Wear suitable protective clothing. Carefully sweep up and remove.

7. Handling and Storage

Keep container tightly closed.

This product can be stored in any general chemical storage area.

Containers of this material may be hazardous when empty since they retain product residues (dust, solids);

Observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection:

Airborne Exposure Limits:

None established.

Ventilation System:

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators: For conditions of use where exposure to the substance is apparent and engineering controls are not feasible, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator.

WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

| | |
|-----------------------------------|-----------------------|
| Appearance: | White Powder. |
| Odor: | Odorless. |
| Solubility: | Negligible (< 0.1%) |
| Specific Gravity: | 2.10 |
| pH: | No information found. |
| Boiling Point: | No information found. |
| Melting Point: | No information found. |
| Vapor Density (Air=1): | Not applicable. |
| Vapor Pressure (mm Hg): | Not applicable. |
| Evaporation Rate (BuAc=1): | No information found. |

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: No information found.

Hazardous Polymerization: Will not occur.

Incompatibilities: Hydrogen fluoride, strong acids, alkalis, olefins, water.

Conditions to Avoid: Moisture.

11. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

12. 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 disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Disclaimer:

Extol Hydro Technologies Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy.

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.
