Material Safety Data Sheet: Molecular Sieve

1. Identification of the substance/preparation and the company
   Substance: Molecular Sieve/Zeolite
   Application: Drying Agent
   Company: IMPAK Corporation
   13700 South Broadway
   Los Angeles, CA 90061

2. Composition/Information of ingredients
   Zeolite, NaA (4A) 68989-22-0 (CAS No.) Zeolite, NaA (13X) 68989-23-1 (CAS No.)
   Zeolite,
   Weight % : 75-85
   CAS No.: see above
   Hazard symbols: --
   R-phrases: --
   Mg Aluminosilicate
   Weight % : 15-25
   CAS No.: 1327-43-1
   Hazard symbols: --
   EINECS No.: --
   R-phrases: --
   Quartz
   Weight % : 0-2
   CAS No.: 14808-60-7
   Hazard symbols: --
   EINECS No.: --
   R-phrases: --

3. Hazards Identification
   Hazard description: MAY CAUSE IRRITATION. CAUSES EYE AND SKIN IRRITATION
   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 NIOSH-approved self-contained breathing apparatus with full facepiece 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. Suitable for any general chemical storage area. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warning 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 (NIOSH Approved): 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-facepiece 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 dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area

9. **Physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Blue Beads</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Solubility</td>
<td>Negligible (&lt;0.1%)</td>
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<tr>
<td>Specific Gravity</td>
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<tr>
<td>pH</td>
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<tr>
<td>% Volatiles by volume @ 21C (70F):</td>
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<tr>
<td>Boiling Point</td>
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<tr>
<td>Melting Point</td>
<td>No information found</td>
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<tr>
<td>Vapor Density (Air-1):</td>
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<tr>
<td>Vapor Pressure (mm Hg):</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate (BuAc=1):</td>
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</tr>
</tbody>
</table>

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 flouride, strong acids, alkalis, olefins, water
Conditions to Avoid: Moisture
11. Toxicological Information
No information found

12. Ecological information
Environmental Fate: No information found
Environmental Toxicity: No information found

13. Disposal Considerations
Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste
disposal facility. Process, 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.

14. Transport information
Not regulated

15. Regulatory information

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TSCA</th>
<th>EC</th>
<th>Japan</th>
<th>Australia</th>
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</thead>
<tbody>
<tr>
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Chemical Inventory Status - Part 2

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<td>No</td>
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</table>

Federal, State & International Regulations - Part 1

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>RQ</th>
<th>TPQ</th>
<th>List</th>
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<tbody>
<tr>
<td>Sodium Aluminosilicate</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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Federal, State & International Regulations - Part 2

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CERCLA</th>
<th>RCRA-</th>
<th>TSCA-</th>
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<tbody>
<tr>
<td>Sodium Aluminosilicate</td>
<td>No</td>
<td>261.33</td>
<td>8(d)</td>
</tr>
</tbody>
</table>

Chemical Weapons Convention: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated
Poison Schedule: None allocated
WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations
(CPR) and the MSDS contains all of the information required by the CPR.
16. Other Information

Label Hazard Warning: CAUTION! MAY CAUSE IRRITATION. CAUSES EYE AND SKIN IRRITATION
Label Precautions: During use avoid contact with eyes, skin, clothing. Wash thoroughly after handling. When not in use keep in a tightly closed container
INTENDED FOR R & D USE ONLY.
NOT ON THE TSCA INVENTORY
Label First Aid: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse.
Product Use: Laboratory Reagent. Research and Development Use Only.
Revision Information: No Changes

The data here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties, or performance.