Material Safety Data Sheet

Section 1: Identification
Name: POLY (SODIUM-4-STYRENESULFONATE) SOLUTION
Company: QuantomiX Ltd.
12 Hamada St.
Tamar Science Park
Rehovot, Israel

Section 2: Composition/Information on Ingredients
Appearance: Liquid

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS Number</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLY(SODIUM-4-STYRENESULFONATE)</td>
<td>0257704-18-1</td>
<td>0.3%</td>
</tr>
<tr>
<td>WATER</td>
<td>007732-18-5</td>
<td>&gt;99%</td>
</tr>
</tbody>
</table>

Formula: \( \text{C}_8\text{H}_7\text{NaO}_3\text{S} \)

Section 3: Hazards Identification
May cause skin and eye irritation.
May be irritating to mucous membranes and upper respiratory tract.
May be harmful if swallowed or inhaled.
May be harmful if absorbed through the skin.
Carcinogenicity: No information found on studies of Carcinogenicity of the product.

Section 4: First Aid Measures
Skin: Rinse with large amounts of water and soap. Get medical attention as necessary.
Eyes: Rinse opened eyes under running water for at least 15 minutes. Get medical attention.
Ingestion: Do NOT induce vomiting. If casualty is conscious, give two cups of water. Get medical attention. Never give anything by mouth to an unconscious person.
Inhalation: Remove to fresh air. If breathing is difficult, give oxygen if possible. If casualty is not breathing, give artificial respiration. Get medical attention.

Section 5: Fire-Fighting Measures
Extinguishing media: Carbon dioxide, dry chemical powder, foam, water spray.

Product emits toxic fumes under fire conditions.

Use full protective gear and a self-contained breathing apparatus.

Section 6: Accidental Release Measures
Wear full protective gear before any treatment of the leakage or spill.
Provide ventilation. Absorb with sand, vermiculite or other incombustible absorbent material. Collect into container and send to disposal site according to the local regulations.
Prevent product from entering the sewage system and water sources.

Section 7: Handling and Storage
Keep away from: strong oxidizing materials.
Safety phrases
Do not breath gas or fumes or spray.
Avoid contact with skin and eyes.
Keep the container tightly closed.
Avoid prolong or repeated exposure.
Avoid contact with clothing.

Section 8: Exposure Control and Personal Protection
Threshold values: not available
IDLH: (Immediately Dangerous to Life and Health): not available.
Protective equipment: Generally, personal protection is a function of exposure. It is recommended to use gloves, safety spectacles or goggles, working shoes, working clothes or lab coat. Working should be done in a well-ventilated area.
In case of an emergency: Full protective gear and a self-contained breathing apparatus should be used, according to the severity.

Section 9: Physical and Chemical Properties:
Boiling point (°C): 100
Freezing point (°C): N/A
Density at 20°C (gr/cm³): 1.158
Vapor density (air=1): N/A
Vapor pressure (mm Hg): N/A
Solubility (in water): Soluble
pH: N/A
Flash point (°C): N/A
Auto-ignition temperature (°C): N/A
LEL: N/A UEL: N/A

Section 10: Stability and Reactivity
Hazardous polymerization: Will not occur.
Chemical reactivity: Stable under ordinary use. Keep away from incompatibilities.
Hazardous decomposition products: On fire emits toxic and irritating fumes, sodium oxides, sulfur oxides, carbon monoxide, carbon dioxide.
Incompatibilities: Strong oxidizing agents.

Section 11: Toxicological Information
For powdered Poly(sodium-4-styrenesulfonate), MW ca. 70,000:
LD50 (Oral rat) : > 8000 mg/kg
LD50 (Oral mouse) : > 10000 mg/kg

Section 12: Ecological Information
Environmental hazards: No data available
**Biodegrability:** No data available.

**Section 13: Disposal Considerations**
According to local regulations.

**Section 14: Transport Information**
Not classified as Hazardous for transportation.
In case of transport at elevated temperatures – refer to UN recommendations.

**Section 15: Regulatory Information**
According to local regulations.

**Section 16: Other Information**
Risk phrases: not available
Safety phrases: S23, S24/25, S07.

Date of issue: May 30, 2005

The above information is based on the present state of our knowledge. It is believed to be correct but is not necessarily all-inclusive and shall be used only as a guide. QuantomiX Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. The above information does not represent any guarantee of the properties of the product.