

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

Ingredients	CAS Number	Weight
POLY(SODIUM-4-STYRENESULFONATE)	0257704-18-1	0.3%
WATER	007732-18-5	>99%

Formula: $C_8H_7NaO_3S$

Section 3: Hazards Identification

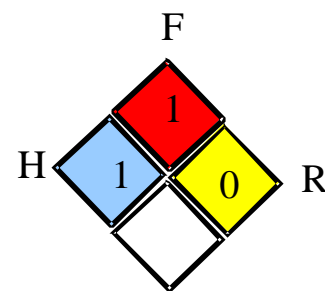
May cause skin and eye irritation.

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.



Health (H) Flammability (F)
Reactivity (R) in scale 0 (not hazardous) till 4 (extremely hazardous).

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



Biodegradability: 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.

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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.