

Revised 10/10/2006

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**MATERIAL SAFETY DATA SHEET**

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**1. CHEMICAL IDENTIFICATION**

<u>Product/Common Name</u>	<u>Formula</u>	<u>Hazardous</u>
NanoLinK™ Streptavidin Magnetic Microspheres	Mixture	No
Date Revised: 3/21/2007		

**2. COMPOSITION/INGREDIENTS**

	<u>Approx. % (w/v)</u>	<u>Hazardous</u>
<b>Chemical Name:</b> Amino and Carboxylate-modified polystyrene microparticles modified cross-linked to streptavidin	1.0	No
<b>Chemical Name:</b> 4-formyl benzoate	<0.01	No
<b>Molecular Formula:</b> C <sub>12</sub> H <sub>9</sub> NO <sub>5</sub> MW 247.2		
<b>Molecular Weight:</b> 247.2		
<b>RTECS ID:</b> WZO440000		
<b>Chemical Name:</b> 6-hydrazinonicotinate	<0.001	No
<b>Molecular Formula:</b> C <sub>13</sub> H <sub>14</sub> N <sub>4</sub> O <sub>4</sub> MW 290.2		
<b>Molecular Weight:</b> 290.2		
<b>Chemical Name:</b> Fe <sub>2</sub> O <sub>3</sub> -Fe <sub>3</sub> O <sub>4</sub> (Magnetite)	0.40	No
<b>RTECS ID:</b> N07400000		
<b>Chemical Name:</b> Streptavidin (protein)	0.05	No
<b>Molecular weight:</b> 55,000		
<b>Chemical Name:</b> Sodium Azide (preservative)	0.05	Yes
<b>Chemical Name:</b> water	98.989	No

**3. PHYSICAL AND CHEMICAL PROPERTIES**

*Appearance:* Brown aqueous suspension that may settle  
*Percent Purity:* 1%  
*Boiling Point:* 212F, 100C  
*Melting Point:* NA  
*Specific gravity:* 1.4-1.5  
*Freezing Point:* NA

pH: NA  
Solubility in water: suspension  
Vapor Density: 0.624 @ 80 °F  
Vapor Pressure 17.5 mm Hg @ 20 °C

## 5. **REACTIVITY**

*Stability:* Stable when stored 4°C –25 °C( room temperature), (Conditions to avoid) may coagulate if frozen at 32°F, 0°C or below. Dried resin is combustible and can raise dust.  
*Incompatibility:* Addition of organic solvents may cause coagulation  
*Hazardous Decomposition Components:* If burned, produces dense black smoke and noxious gases (carbon monoxide and hydrocarbons)

## 5. **EXPOSURE CONTROLS/EMPLOYEE PROTECTION**

Wear appropriate chemically-resistant gloves, safety goggles, and other protective clothing. Safety shower and eye bath. Wash thoroughly after handling.

## 6. **HAZARDS IDENTIFICATION**

*Precautionary Statement:* this product is not considered to present a health hazard when handled using standard laboratory practices and general hygiene measures, i.e wash hands thoroughly after handling.

*Medical Conditions Aggravated:*

*Primary Routes of Entry:*

<i>PEL:</i>	NA
<i>TLV:</i>	NA
<i>LD50:</i>	NA
<i>Carcinogenicity:</i>	NA
<i>Toxicity:</i>	NA
<i>RTECS #:</i>	NA
<i>Acute Effects:</i>	NA
<i>Chronic Effects:</i>	NA
<i>Target Organs:</i>	NA

## 7. **FIRST AID MEASURES**

*Eyes:* Immediately flush eyes with copious amounts of water for at least 15 minutes

*Skin:* Immediately wash skin with soap and copious amounts of water

*Inhalation:* Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen

*Ingestion:* If swallowed, wash out mouth with water provided person is conscious. Call a physician.

*Other:* Wash contaminated clothing before re-use

## 8. **FIRE FIGHTING MEASURES**

*Upper Flammable Limit:* Not applicable

*Lower Flammable Limit:* Not applicable

*Upper Explosion Limit:*

*Lower Explosion Limit:*

*Flashpoint:*

*Autoignition Temperature:*

*Fire Extinguishing Media :* Water fog, dry resin only.

*Unusual Fire/Explosion Data:* The dried resin is combustible, similar to wood. Burning the dry resin emits dense, black smoke. As latex, material is not combustible.

9. **ACCIDENTAL RELEASE**

Wear chemical safety goggles and latex gloves. Contain spill with absorbent material. Dispose of absorbent material in an appropriate container. Avoid drying or desiccating the product which could raise dust.

10. **HANDLING AND STORAGE**

Store at 4-8 °C.

11. **WASTE DISPOSAL**

This product contains 0.05% sodium azide. Sodium azide can react with copper or lead plumbing to form highly explosive metal azides. Upon disposal, flush with a large volume of water to prevent azide build-up. Sodium azide may be harmful if swallowed. In the event of oral exposure and the person is still conscious, rinse mouth out with copious amounts of water. In all cases, immediately contact a physician. Observe all federal, state, and local environmental regulations for disposal of plastic (polystyrene-based) solid waste. Dispose of product in accordance with all applicable Federal, State, and local environmental regulatory regulations.

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