

Solulink, Incorporated
9853 Pacific Heights Blvd, Suite H
San Diego, California 92121

Phone: (858) 625-0670
Fax: (858) 625-0770

Revised 6/26/2008

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND IDENTIFICATION

Product/Common Name

MagnaLink™ Streptavidin Magnetic Beads

Formula

Mixture of protein-coated polymeric magnetic particles

Date Revised: 6/19/2008

2. COMPOSITION/INGREDIENTS

<u>Chemical Name:</u>	<u>CAS #</u>	<u>Approx. % (w/v)</u>	<u>Hazardous</u>
1 Benzene, ethenyl-, homopolymer	09003-53-6	0.5	No
2 Iron oxide (Fe ₃ O ₄)	01317-61-9	0.5	No
3 Streptavidin (complex polypeptide protein, M.W. 55kD)	Not available	0.08	No
4 Sodium azide	26628-22-8	0.05	Yes
5 Water	07732-18-5	98.87	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

4. 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.

If no data is listed the information is not available

Health	Flammability	Reactivity
0	0	0

Medical Conditions Aggravated: None known
Primary Routes of Entry:

OSHA (ACGIH) Exposure Limits

	<i>TWA</i>		<i>STEL</i>		<i>Ceiling</i>	
	<i>ppm</i>	<i>mg/</i>	<i>ppm</i>	<i>mg/m3</i>	<i>ppm</i>	<i>mg/m3</i>
<i>Cas #:09003-53-6 IDLH:NE</i>						
OSHA	NE	NE	NE	NE	NE	NE
ACGIH NE	NE	NE	NE	NE	NE	NE
	NE	NE	NE	NE	NE	NE
<i>Cas #:01317-61-9 IDLH:NE</i>						
OSHA	NE	NE	NE	NE	NE	NE
ACGIH NE	NE	NE	NE	NE	NE	NE
	NE	NE	NE	NE	NE	NE
<i>Cas #:26628-22-8 IDLH:--</i>						
OSHA	NIOSH	--	---	---	---	---
ACGIH NE	---	---	---	---	0.11c	0.29d
	---	---	---	---		
<i>Cas #:07732-18-5 IDLH:NE</i>						
OSHA	NE	NE	NE	NE	NE	NE
ACGIH NE	NE	NE	NE	NE	NE	NE

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: no data

Lower Explosion Limit no data:

Flashpoint: no data

Auto-ignition Temperature: no data

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

Long term storage at 4-8 °C. Keep from freezing.

11. WASTE DISPOSAL

<u>CAS #</u>	<u>Waste Code</u>	<u>Regulated Name</u>
9003-53-6	Not listed	Not listed
1317-61-9	Not listed	Not listed
07732-18-5	Not listed	Not listed
26628-22-8	P105	Sodium azide

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.

12. TRANSPORTATION DATA

Refer to the bill of lading or container label for DOT or other transportation hazard classification, if any.

13. REGULATORY INFORMATION

All components of this product are on the TSCA public inventory.

Prop 65- Column A identifies items known to the State of California to cause cancer. Column B identifies items known to the State of California to cause reproductive toxicity.

<u>CAS #</u>	<u>Column A</u>	<u>Column B</u>
9003-53-7	No	No
1317-61-10	No	No
07732-18-5	No	No
26628-22-8	No	No

State Regulatory Information: if a CAS# is listed below this material is subject to right-to-know requirements

<u>CAS #</u>	
9003-53-8	Not listed

1317-61-11	Not listed
07732-18-5	Not listed
26628-22-8	FL MA MN NJ PA WA

Solulink, Inc. believes the above information to be accurate, but not necessarily all inclusive, and thus should only be used as a guide in the handling and use of this material. The data in this MSDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Solulink, Inc. shall not take responsibility for any damage resulting from handling or from contact with the above product. The information in this material safety data sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder 29 CFR § 1910.1200.