

# Material Safety Data Sheet

Solulink Biosciences  
9853 Pacific Heights Blvd, Ste H.  
San Diego, CA 92121

Tel: 858.625.0670  
Fax: 858.625.0770  
Prepared: 07/09/08

**Product Name/Description:** NanoLink Amino Magnetic Beads

## I. Product and Company Description

Solulink, Inc.  
9853 Pacific Heights Blvd, Ste H.  
San Diego, CA 92121

**For Product Information/Emergency Phone Number:**

858.625.0670

For product use see insert

**Chemical Name or Synonym:**

N/A

## II. Chemical Composition

NanoLink is normally supplied as a 1% suspension of polymer microsphere in water containing 0.05% sodium azide preservative.

Ingredient Name	CAS Number	%	EC number	Classification
Amino modified polystyrene	09003-53-6	0.45	N/A	N/A
Iron oxide	01317-61-9	0.4	N/A	Non hazardous
Water	07732-18-5	99.0		Not controlled
Sodium azide	26628-22-8	0.05%	247-852-1	T+; R28, R32 N; R50/53

## III. Hazards Identification

This product is not considered to present a health hazard when handled according to standard laboratory practices and general hygiene measures i.e. wash hands after using.

### A. Emergency Overview:

**Information Pertaining To Particular Dangers for Man And Environment:** Not known

**Physical Appearance:** brown aqueous suspension that may settle on standing

### B. Potential Health Effects:

**Acute Eye:**

May cause irritation.

**Acute Skin:**

May cause irritation.

**Acute Inhalation:**

May be harmful if inhaled.

**Acute ingestion:**

May be harmful if swallowed.

**Medical Conditions Generally Aggravated by Exposure:**

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ND

## IV. First Aid Measures

### First Aid Measures for Accidental:

#### Eye Exposure:

Immediately flush eyes with copious amounts of water for at least 15 minutes. If irritation develops, SEEK MEDICAL ATTENTION.

#### Skin Exposure:

Wash affected areas with soap and water. If irritation develops, SEEK MEDICAL ATTENTION.

#### Inhalation:

Move to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, give oxygen. SEEK MEDICAL ATTENTION.

#### Ingestion:

If swallowed, rinse mouth out with water. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. SEEK MEDICAL ATTENTION.

## V. Fire Fighting Measures

### Fire Hazard Data:

**Autoignition:** no data

**Flash Point:** no data

**Flammability Limits (vol/vol%):**

**Lower: Upper:**

No data No data

**Extinguishing Media:** Use extinguishing media appropriate for surrounding fire

#### Special Fire Fighting Procedures:

None

#### Unusual Fire and Explosion Hazards:

None

## VI. Accidental Release Measures

### Cleanup and Disposal of Spill:

Using standard lab personal protective equipment such as gloves, lab coat, and goggles wipe spills with absorbent wipes and discard any product, residue, disposable container or liner in full compliance with national or international regulations. No special measures are indicated.

## VII. Handling and Storage

**Handling/Storage:** Handle wearing gloves. Store product at 4°C.

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## VIII. Exposure Controls / Personal Protection

### Exposure Guidelines:

Ingredient Name	ACGIH	NIOSH	OSHA-PELs
Sodium azide	Ceiling 0.29	0.1 ppm ceiling (skin) as HN3, 0.3 mg/m3 ceiling (skin) as NaN3	ND

### Engineering Controls:

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS. General room ventilation is satisfactory under anticipated use conditions.

### Respiratory Protection:

Not required under anticipated use conditions.

### Eye / Face Protection:

Wear appropriate safety glasses with side shields or chemical goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166.

### Skin Protection:

Wear chemical resistant gloves (such as latex or neoprene) and protective clothing to minimize skin contact.

## IX. Physical and Chemical Properties

*Physical 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*

## X. Stability and Reactivity

### Chemical Stability:

Stable

### Conditions to Avoid:

Temperatures <0°C and > 60°C

### Materials / Chemicals to Be Avoided:

Strong oxidizing agents and acids.

### Hazardous Decomposition Products:

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Azide reacts with metal halides to give a range of metal azide halides, many of which are explosive.

**Hazardous Polymerization:**

Will not occur.

## XI. Toxicological Information

**Carcinogenicity:**

NTP: NO

IARC: NO

**Acute Dermal Toxicity:**

For Sodium Azide: Skin rabbit LD50: 20 mg/kg

**Acute Oral Toxicity:**

For Sodium Azide: Oral rat LD50: 27 mg/kg

**Acute Inhalation Toxicity:**

ND

**Chronic Toxicity:**

Mutagenicity: Sodium azide may alter genetic material.

Reproductive effects: ND

## XII. Ecological Information

**Ecotoxicological Information:**

Not Determined

## XIII. Disposal Considerations

**Waste Disposal Method:**

Discard any product, residue, disposable container or liner in full compliance with national regulations.

**Container Handling and Disposal:**

Dispose of container and unused contents in accordance with national regulations.

## XIV. Transportation Information

**Shipping Name: ADR/RID/IMO/ICAO/US DOT**

**Proper Shipping Name** Not Regulated

**Hazard Class** Not Regulated

**ID Number** Not Regulated

**Packaging Group** Not Regulated

**Label Statement** Not Regulated

## XV. Regulatory Information

**U.S. Federal Regulations:**

**SARA Title III Hazard Classes:**

Fire Hazard: No

Reactive Hazard: No

Release of Pressure: No

Acute Health Hazard: No

Chronic Health Hazard: No

**TSCA**

All components of this product are on the TSCA inventory or are not required to be listed.

**Other Regulations:**

**U.S. State** None

**European/International Regulations**

**Risk Phrases:** None

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**Safety Phrases:** None

## **XVI. Other Information**

**National Paint & Coating Hazardous Materials Identification System – HMIS(R):**

**Health Hazard: 0**

**Flammability: 0**

**Reactivity: 0**

**Key Legend Information:**

**N/A – Not Applicable**

**ND – Not Determined**

**ACGIH – American Conference of Governmental Industrial Hygienists**

**OSHA – Occupational Safety and Health Administration**

**TLV – Threshold Limit Value**

**PEL – Permissible Exposure Limit**

**TWA – Time Weighted Average**

**STEL – Short Term Exposure Limit**

**NTP – National Toxicology Program**

**IARC – International Agency for Research on Cancer**

**The information contained herein is based on the data available to us and is believed to be correct. However Solulink Incorporated makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof be obtained from the use thereof.**