

Product Name: SA-Beads

Version: 04/11

Status: 27.05.2010

Date of printing: 05.04.2011

## 1.) Identification of the substance/preparation and company

### Product details

#### Product name

### **Streptavidin Magnetic Beads**

(Polydisperse superparamagnetic polyvinylalcohol beads with covalently coupled streptavidin.)

**Cat. No.** 311092

**Cat. No.** 800032

#### Use

For laboratory & research use only.

### Identification of the manufacturer / supplier

#### Address

Hyglos GmbH

Am Neuland 3

82347 Bernried, Germany

Tel +49(0)8158 9060 0

Fax +49(0)8158 9060 210

#### Information provided by / telephone

+49(0)8158 9060 0

#### Emergency telephone number

+49(0)8158 9060 0 (8.00 am - 6.00 pm)

Centre of Detoxification: Mainz +49-6131-232466 or -232467 / Munich +49-89-19240

## 2.) Composition / information on ingredients

### Chemical characterization

Substance / Preparation: Preparation

Polydisperse superparamagnetic polyvinylalcohol beads with covalently coupled streptavidin, suspension dissolved in Tris-HCl (40 mM, pH 8.0 + 150 mM NaCl), containing  $\leq 0,09\%$  Na-Azide).

CAS no.

EC no.

### 3.) Hazards identification

**United States** Review the most current and approved institutional guidelines, protocol, standard operating procedure(s) and MSDS(s) for the proper handling of institutional materials/equipment associated with the use of this product.

Emergency Overview No specific hazard.

Routes of Entry Inhalation: Not applicable.

Potential Acute Health Effects Hazardous in case of ingestion.

Carcinogenic Effects Data Carcinogenic Effects: Not available.

Mutagenic Effects: Not available.

Teratogenic Effects: Not available.

Medical Conditions Aggravated by Overexposure Repeated or prolonged exposure is not known to aggravate medical condition.

Overexposure / Signs / Symptoms Not available.

#### **Europe**

Classification Not controlled under dsd (Europe).

Physical/chemical hazards Not applicable.

Human health hazards Not applicable.

Environmental hazards Not applicable.

See Toxicological Information (section 11)

### 4.) First aid measures

#### **Effects and symptoms**

Ingestion Hazardous in case of ingestion.

Skin contact In case of contact, immediately flush skin with plenty of water.

Eye Contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Aggravating conditions Repeated or prolonged exposure is not known to aggravate medical condition.

#### **First-Aid Measures**

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse.

Thoroughly clean shoes before reuse. Get medical attention.

Eye contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Notes to Physician Not available.

Protection of first-aiders Not available.

### 5.) Firefighting measures

#### **Flammability of the Product**

Non-flammable.

#### **Flash Points**

Not applicable.

**Fire Hazards in Presence of Various Substances**

Not applicable.

**Fire Fighting Media and Instructions**

Not applicable.

**Protective Clothing (Fire)**

Not applicable.

**Hazardous thermal (de)composition products**

Not applicable.

**6.) Accidental release measures****Personal precautions**

Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved / certified respirator or equivalent.

**Environmental Precautions and Clean-up Methods**

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

**Small Spill and Leak**

Dilute with water and mop up, or absorb with an inert dry material and lace in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**7.) Handling and storage****Handling**

Avoid breathing vapors or spray mists.

**Storage**

Keep container tightly closed and protect from light. Keep container in a cool area (2-8 °C). Do not freeze.

**Intended Use**

Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

**Packaging materials – Suitable / Not suitable**

Use original container.

**8.) Exposure controls / personal protection****Personal protective equipment****Eyes**

Safety glasses.

**Body**

Lab coat

**9.) Physical and chemical properties****General information**

Physical State and Appearance	Particle suspension.
Odor	Not available
Molecular weight	Not applicable

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Taste	Not applicable
pH	8.0
Buffer composition	40 mM Tris/HCl + 150 mM NaCl + 0.09% Na-Azide
Colour	Brownish
Boiling/Condensation Point	100 °C (212 °F) (biochemical water)
Melting/Freezing Point	May start to solidify at -0.1 °C (31.8 °F) based on data for biochemical buffer.
Specific Gravity	The only known value is 1 (Water = 1) (deionised water)
Vapor Pressure	Not higher than 2.3 kPa (@ 20 °C) (deionised water)
Evaporation Rate	Not higher than 0.36 (deionised water)
Solubility	Unlimited mixable with water.

## 10.) Stability and reactivity

### **Stability and Reactivity**

The product is stable.

### **Conditions to avoid**

Keep away from heat (sodium azide).

### **Materials to avoid**

Risk of fire and explosion on contact with acids and many metals (lead, brass, copper, mercury, silver).

### **Hazardous Decomposition Products**

Not applicable.

## 11.) Toxicological information

### **Toxicity to Animals**

LD 50: Not available

LC 50: Not available

### **Effects on Humans**

Contains material which causes damage to the following organs:

Azide inhibits cytochrome oxidase by binding irreversibly to the heme cofactor in a process similar to the action of carbon monoxide. Sodium azide particularly affects organs that undergo high rates of respiration, such as the heart and the brain.

### **Other Toxic Effects on Humans**

Hazardous in case of ingestion.

### **Special Remarks on Toxicity to Animals**

Sodium azide acts as a bacteriostatic by inhibiting cytochrome oxidase in gram-negative bacteria.

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## 12.) Ecological information

### **Mobility**

Not available.

### **Persistence / degradableity**

Degradable.

### **Bioaccumulative potential**

Non.

### **Ecotoxicity**

See point 11.

### **Germany water class**

VCI WGK: No products were found. – Please be aware of the content of sodium azide.

## 13.) Disposal considerations

### **Waste Information**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### **Waste Stream**

Not applicable.

*Consult your local or regional authorities.*

## 14.) Transport information

Contact the supplier for all information regarding the proper transportation method for this material.

## 15.) Regulatory information

### Label Requirements (Europe)

This product is not classified according to the EU regulations.

### HCS Classification

#### U.S. Federal Regulations

TSCA 8(b) inventory: deionized water, sodium azide  
TSCA 8 (d) H and S data reporting: sodium azide  
SARA 302/304/311/312 extremely hazardous substances: sodium azide  
SARA 302/304 emergency planning and notification: sodium azide  
SARA 302/304/311/312 hazardous chemicals: sodium azide  
SARA 311/312 MSDS distribution – chemical inventory – hazard identification: sodium azide, immediate health hazard  
Clean Water Act (CWA) 307: no products were found  
Clean Water Act (CWA) 311: no products were found  
Clean Air Act (CAA) 112 accidental release prevention: no products were found  
Clean Air Act (CAA) 112 regulated flammable substances: no products were found  
Clean Air Act (CAA) 112 regulated toxic substances: no products were found

WHMIS (Canada) Not controlled under WHMIS (Canada)

CEPA DSL: deionized water, sodium azide

CEPA NDSL: sodium azide

#### International Regulations

EINECS Not available.

DSCL (EEC) This product is not classified according to the EU regulations.

International Lists  
Australia (NICNAS): deionized water, sodium azide  
Germany water class: sodium azide  
Korea (TCCL): deionized water, sodium azide  
Philippines (RA6969): deionized water, sodium azide

State Regulations  
Pennsylvania RTK: sodium azide: (environmental hazard, generic environmental hazard)  
Florida: sodium azide  
Minnesota: sodium azide  
Massachusetts RTK: sodium azide  
New Jersey: sodium azide  
California prop. 65: no products were found.

## 16.) Other information

### Warranty

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Hyglos be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Hyglos has been advised of the possibility of such damages. Copyright 2010 Hyglos GmbH.

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