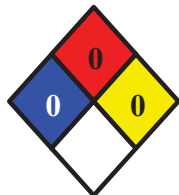


# Safety Data Sheet



Revision Date: 4/5/2013

SDS #: 10296

Antibody Magnetic Beads

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Description	Product Code
BacTrace® Anti-Salmonella Magnetic Beads	082-01-91-99
BacTrace® Anti-E. coli O45 Magnetic Beads	082-01-95-96
BacTrace® Anti-E. coli O26 Magnetic Beads	082-01-95-92
BacTrace® Anti-E. coli O157 Magnetic Beads	082-01-95-90
BacTrace® Anti-E. coli O145 Magnetic Beads	082-01-95-94
BacTrace® Anti-E. coli O121 Magnetic Beads	082-01-95-95
BacTrace® Anti-E. coli O111 Magnetic Beads	082-01-95-91
BacTrace® Anti-E. coli O103 Magnetic Beads	082-01-95-93

### Hazardous Reagent

None

### Hazardous Reagent Product code

None

**Recommended Use** Antibodies and Conjugates

**Contact Manufacturer** KPL, Inc.  
910 Clopper Road  
Gaithersburg, Maryland 20878  
USA

**Phone #:** 1-301-948-7755  
**Fax #:** 1-301-948-0169  
**Web:** www.kpl.com  
**Email:** msds@kpl.com

### Emergency Telephone Numbers:

AUSTRALIA – POISONS INFORMATION CENTER	Telephone: 13 11 26	Hours: 24 hours
CANADIAN TRANSPORT EMERGENCY CENTER	Telephone: (1 ) 613 996 6666	Hours: 24 hours/day, 7 days/week
UK – THE NATIONAL FOCUS	Telephone: (44) 029 2041 6388	Hours: 09:00-17:00 GMT
USA- NATIONAL RESPONSE CENTER	Telephone: (1 ) 800 424 8802	Hours: 24 hours/day, 7 days/week

## 2. HAZARD IDENTIFICATION

**Hazard Type** The product contains no substances which at their given concentration, are considered to be hazardous to health

**Principle Route of Exposure** The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

**Acute Effects: Eye:** May cause redness and Irritation

<b>Acute Effects: Skin:</b>	Dry skin and Irritation may occur
<b>Acute Effects: Inhalation:</b>	May be harmful if inhaled in very large quantities.
<b>Acute Effects: Ingestion:</b>	May be harmful if swallowed.
<b>Chronic Effects:</b>	Not Applicable
<b>Additional Information</b>	The product contains no substances which at their given concentration, are considered to be hazardous to health

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
Antibody Magnetic Beads	Sodium Azide	<0.02%	26628-22-8
	EDTA	<0.1%	60-00-4

### 4. FIRST AID MEASURES

<b>General Advice</b>	Wash contaminated clothing before reuse. Consult a physician if irritation persists.
<b>Oral Exposure</b>	Rinse mouth.
<b>Inhalation Exposure</b>	Remove subject to fresh air, rest.
<b>Skin Exposure</b>	Rinse skin with plenty of water or shower.
<b>Eye Exposure</b>	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

### 5. FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Use extinguishing media appropriate for surrounding fire.
<b>Unusual Fire and Explosive Hazards</b>	Not Applicable
<b>Flash Point</b>	Not Applicable
<b>Autoignition Temperature</b>	Not Applicable
<b>Flammability Statement</b>	Not Applicable
<b>Specific hazards arising from the chemical</b>	Not Applicable
<b>Protective equipment and precautions for firefighters</b>	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with skin and clothing.
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<b>Environmental Precautions</b>	DO NOT wash into sewer. It may be necessary to contain and dispose substance containing Sodium Azide as a HAZARDOUS WASTE. Contact your state Department of Environmental Protection (DEP) or your regional office of the federal Environmental Protection Agency (EPA) for specific recommendations.
<b>Method of Containment</b>	Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place.
<b>Methods of Clean-up</b>	Clean-up with copious amounts of water.
<b>Other Information</b>	Not Available

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Storage:</b>	Store at 2-8°C.

## 8. EXPOSURE CONTROL

<b>Respiratory Protection</b>	Personal Protective Equipment is not required if good ventilation is maintained. Otherwise wear P2 filter respirator for harmful particles suitable for vapor or mist concentrations encountered. Ventilation (not if powder), local exhaust, or breathing protection.
<b>Eye Protection</b>	Safety goggles.
<b>Skin Protection</b>	Protective gloves. Protective clothing.
<b>Ingestion</b>	Do not eat, drink, or smoke during work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Antibodies Conjugated to Magnetic Beads in Suspension
<b>Physical State</b>	Brown pellet at bottom of clear suspension. See datasheet for more information.
<b>Odor</b>	Not Applicable
<b>Odor Threshold</b>	Not Applicable
<b>pH</b>	Not Applicable
<b>Boiling Point</b>	Not Applicable
<b>Evaporation Rate</b>	Not Applicable
<b>Vapor Density</b>	Not Applicable
<b>Vapor Pressure</b>	Not Applicable
<b>Relative Density</b>	Not Applicable
<b>Auto-Ignition Temperature</b>	Not Applicable
<b>Water Solubility</b>	Dilutable
<b>Flammability</b>	Not Applicable
<b>Flash Point</b>	Not Applicable
<b>Viscosity</b>	Not Applicable
<b>Oxidizing Properties</b>	Not Applicable
<b>Explosive Properties</b>	Not Applicable
<b>Additional Parameters</b>	See Datasheet for product specific information.

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions
<b>Conditions to avoid</b>	Not Available
<b>Incompatibility Materials to Avoid</b>	Not Available
<b>Hazardous Decomposition Products</b>	Not Applicable
<b>Hazardous Polymerization</b>	Will not occur
<b>Possibility of hazardous reactions</b>	Not Applicable

## 11. TOXICOLOGY MEASURES

### Acute Toxicity

The toxicological risks are minor due to the low concentration of hazardous ingredients. The following toxicological information is for the hazardous ingredient in pure form.

<b>LD50 Oral</b>	Data for 100% Sodium Azide: SPECIES: Rat ENDPOINT: LD50 VALUE: 27 mg/kg Acutely toxic
<b>LD50 Dermal</b>	Not Available
<b>LC50 Inhalation</b>	Not Available

### Chronic Toxicity

<b>Carcinogenicity</b>	Not Applicable
<b>Irritation</b>	Data for 100% Sodium Azide: Applicable
<b>Corrosivity</b>	Not Applicable
<b>Sensitization</b>	Not Applicable
<b>Neurological Effects</b>	Data for 100% Sodium Azide: Suspected Neurotoxin
<b>Mutagenic Effects</b>	Not Applicable
<b>Reproductive Effects</b>	Not Applicable
<b>Developmental Effects</b>	Not Applicable
<b>Target Organ Effects</b>	Data for 100% Sodium Azide: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system
<b>Other adverse effects</b>	Not Applicable

## 12. ECOLOGICAL MEASURES

<b>Ecotoxicity</b>	Data for 100% Sodium Azide: Very ecotoxic in the aquatic environment
<b>Persistence/Degradability</b>	Not Available
<b>Mobility in Environmental Media</b>	Not Available
<b>Bioaccumulation/Accumulation</b>	Not Available

### 13. DISPOSAL MEASURES

- Waste Disposal Method:** Avoid escape into water, drainage, sewer, or the ground. If there is no way of recycling it must be disposed of in compliance with the respective national and local regulations. DATA FOR 100% Sodium Azide - Collection of small amounts of substance: Azides react with acidified nitrite solution forming nitrogen. This method is also suitable for the disposal of larger quantities. Alternative: Azides are disintegrated with iodine in the presence of sodium thiosulphate under the production of nitrogen. Place in collecting containers for salt solutions, adjust for a pH value of 6 - 8, or place in collecting containers for inorganic residues as well as heavy-metal salts and their solutions. Collection vessels must be clearly labelled with a systematic description of their contents and with the hazard symbol and the R and S phrases. Store the vessels in a well-ventilated location. Entrust them to the appropriate authorities for disposal.
- Contaminated Packaging:** Avoid contact with skin and clothing. Rinse container with copious amount of water and dispose in compliance with national and local regulations.
- US EPA Waste Number:** Not Available

### 14. TRANSPORTATION MEASURES

- DOT:** Not Regulated
- IATA:** Not Regulated
- ADR (road)/ RID (rail):** Not Regulated
- IMDG (sea):** Not Regulated
- General Transport Regulations** Not Available

### 15. REGULATORY MEASURES

**This product is a mixture that may contain one or more hazardous chemicals. The hazardous ingredients listed are only those as required by 29 CFR 1910.1200 g 2.C1.**

**SARA 313**

Emergency Planning and Community Right-to-Know Act (EPCRA), (Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 313): This product contains Sodium Azide (26628-22-8) and Ethylenediamine-tetraacetic acid (EDTA) (60-00-4)

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (See 40 CFR 61)**

This product contains no chemical or chemicals which are subject to the reporting requirements of the Clean Air Act, Section 112 HAPS.

**State Regulations**

**California Proposition 65:**

This product contains the following Proposition 65 chemicals: Not Listed

**State Right to Know Act**

Chemical Name	Sodium Azide	EDTA
Massachusetts	Listed	Listed
New Jersey	Listed	Listed
Pennsylvania	Listed	Listed

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New York	Listed	Listed
Rhode Island	Listed	Listed

**International Inventories**

Chemical Name	Sodium Azide	EDTA
TSCA	Listed	Listed
DSL	Listed	Listed
NDSL	Not Listed	Not Listed
EINECS	Listed	Listed
ELINCS	Not Listed	Not Listed
CHINA	Listed	Not Listed
KECL	Listed	Listed
JAPAN:	Listed	Listed
AICS	Listed	Listed

**EU Regulations**

Annex I Index#	Not Applicable
Classification	Not Applicable
Risk Phrases	Not Applicable
Safety Phrases	Not Applicable
Symbols and Indications of Danger	Not Applicable
Specific Concentration Limits	Not Available
Export and Import	This substance is not listed in the Annex I of Regulation (EC) No 689/2008.
European Priority List	This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.).

**16. OTHER INFORMATION**

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. KPL shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. This material is sold for research purposes and is intended as laboratory reagents only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.