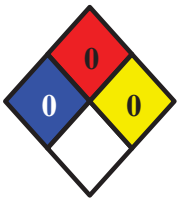
Safety Data Sheet



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

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

4. FIRST AID MEASURES

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

5. FIRE FIGHTING MEASURES

Extinguishing media	Use extinguishing media appropriate for surrounding fire.
Unusual Fire and Explosive Hazards	Not Applicable
Flash Point	Not Applicable
Autoignition Temperature	Not Applicable
Flammability Statement	Not Applicable
Specific hazards arising from the chemical	Not Applicable
Protective equipment and precautions for firefighters	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

Personal Precautions	Avoid contact with skin and clothing.

Environmental Precautions	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.
Method of Containment	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.
Methods of Clean-up	Clean-up with copious amounts of water.
Other Information	Not Available

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROL

Respiratory Protection	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.
Eye Protection	Safety goggles.
Skin Protection	Protective gloves. Protective clothing.
Ingestion	Do not eat, drink, or smoke during work.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

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

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

Chronic Toxicity

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

12. ECOLOGICAL MEASURES

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

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.