

# SAFETY DATA SHEET

Document ID: ODR3021-75 Version 05  
Revision Date (year/month/day) 2019/03/12  
Last Revision Date (year/month/day) 2015/03/20

## Section 1 Identification of the Substance/mixture and of the Company/undertaking

### 1.1 Product Identifier

**Product Name** Serum Protein Multicalibrator

**Part Number** ODR3021

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Product Use** For In Vitro Diagnostic Use. See product literature for details.

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer

Beckman Coulter, Inc.  
250 S. Kraemer Blvd  
Brea, CA 92821, U.S.A.  
Tel: 800-854-3633

#### EC REP Address

Beckman Coulter Ireland Inc.  
Lismeehan  
O'Callaghan's Mills  
Co. Clare  
Ireland  
Tel: 353 (0)65 6831100

#### e-mail address

SDSNT@beckman.com

Further information Contact:

Customer support Unit, Beckman Coulter Ireland Inc.

Technical Service Department Tel. +001-800-854-3633 (PST)

E-mail CC\_Support.ie@beckman.com

### 1.4 Emergency telephone number

**Telephone number (24H)** Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887

Tel +353 (0)65 683 1170; 08:00 - 16:30 hrs Mon-Thur, 08:00 - 15:30 hrs Fri (GMT) Tel +001-800-223-0130 (PST)

#### Distributor and Emergency Phone No.

Refer to attached list, Document ID: [472050](#), for local distributor and emergency phone numbers.

## Section 2 Hazards Identification

### 2.1 Classification of substance or mixture

**Product Description** In vitro diagnostic reagent.

Amber; Clear; Liquid; Mild odor

#### Classification according to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

#### Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS

Not classified as hazardous per US-OSHA HCS 2012 and UN GHS

### 2.2 Label Elements

**According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS**

Not classified as hazardous per EC 1272/2008 (CLP/GHS), US-OSHA and GHS

# SAFETY DATA SHEET

Document ID: ODR3021-75 Version 05  
Revision Date (year/month/day) 2019/03/12  
Last Revision Date (year/month/day) 2015/03/20

## Section 2 Hazards Identification (Continued)

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

This product contains material of human origin and should be considered as potentially capable of transmitting infectious diseases.

See Section 11 Toxicological Information for more detailed health information.

## Section 3 Composition and Information on Ingredients

### 3.2 Mixtures

Hazardous Ingredients:		Hazard Classification of Pure Ingredients		
Chemical Name	% by wt.	EU 1272/2008 CLP/GHS	GHS	Note
Sodium Azide CAS # 26628-22-8 EINECS # 247-852-1 Index # 011-004-00-7	< 0.1	Acute Tox. Oral 2, H300 Aquatic Acute 1, H400 Aquatic Longterm 1, H410	Acute Tox. Oral 2, H300 Aquatic Acute 1, H400 Aquatic Longterm 1, H410	2, 8

2 - Substance with Community workplace exposure limits

8 - Present at concentration below the cut-off limits.

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for description of hazard class and hazard statements

## Section 4 First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration by trained personnel and obtain medical attention immediately.

#### Eye Contact

If product enters eyes, rinse eyes gently with water as a precaution.

#### Skin Contact

In case of skin contact, rinse with water as a precaution.

#### Ingestion

If product is ingested, rinse mouth with water. If irritation or discomfort occurs, obtain medical attention immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

No adverse symptoms or effects have been identified.

### 4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

## SAFETY DATA SHEET

Document ID: ODR3021-75 Version 05  
Revision Date (year/month/day) 2019/03/12  
Last Revision Date (year/month/day) 2015/03/20

### Section 5 Fire Fighting Measures

- 
- 5.1 Extinguishing Media** In case of fire use carbon dioxide (CO<sub>2</sub>), dry chemical, water spray or foam.  
For large fires use extinguishing media suitable for surrounding fire.
- 5.2 Special hazards arising from the substance or mixture**  
**Special Fire and Explosion Hazards**  
No special hazards determined.
- Hazardous Combustion Products**  
No combustion products posing significant hazards are expected from this product.
- 5.3 Advice for fire fighters**  
**Protective Equipment** Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.
- 5.4 Additional information** No further relevant information available.

### Section 6 Accidental Release Measures

- 
- 6.1 Personal precautions, protective equipment and emergency procedures**  
**Personal Precautions** This product contains material of human origin and should be handled as though capable of transmitting infectious diseases. Observe general safety guidelines for protection during clean up procedures.  
Wear protective gloves, protective clothing and eye/face protection.
- 6.2 Environmental Precautions** Contain spill to prevent migration.  
Do not allow the undiluted product to enter sewers/surface or ground water.  
Dispose of contents/container in accordance with local regulations
- 6.3 Methods and material for containment and cleaning up**  
**Spill and Leak Procedures** As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.
- 6.4 Reference to other sections** Refer sections 8 and 13.

### Section 7 Handling and Storage

- 
- 7.1 Precautions for safe handling** This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

---

## Section 7 Handling and Storage (Continued)

---

### 7.2 Conditions for safe storage, including any incompatibilities

Store at 2 to 8°C, as directed on the product label.

To maintain product quality, store according to the instructions in the product labeling.

Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

### 7.3 Specific end uses

No further relevant information available.

---

## Section 8 Exposure Controls and Personal Protection

---

### 8.1 Control parameters

#### Exposure Limits

##### US OSHA

None established

##### ACGIH

Sodium Azide  
CAS # 26628-22-8

0.29 mg/m<sup>3</sup> Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)

##### DFG MAK

Sodium Azide  
CAS # 26628-22-8

0.4 mg/m<sup>3</sup> Peak (inhalable fraction); 0.2 mg/m<sup>3</sup> TWA MAK (inhalable fraction)

##### Ireland

Sodium Azide  
CAS # 26628-22-8

0.1 mg/m<sup>3</sup> TWA (as NaN<sub>3</sub>); 0.3 mg/m<sup>3</sup> STEL; Potential for cutaneous absorption

##### IOELVs

Sodium Azide  
CAS # 26628-22-8

Possibility of significant uptake through the skin; 0.3 mg/m<sup>3</sup> STEL; 0.1 mg/m<sup>3</sup> TWA

##### NIOSH

None established

##### Japan

None established

##### Sweden (AFS 2015:7 and amendments)

Sodium Azide  
CAS # 26628-22-8

0.1 mg/m<sup>3</sup> TLV; 0.3 mg/m<sup>3</sup> Binding STEL

### 8.2 Exposure controls

#### Engineering Controls

No special engineering controls are required. Use with good general ventilation.

#### Eye Protection

Safety glasses or chemical goggles should be worn to prevent eye contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

#### Skin Protection

Wear protective clothing and impervious gloves, as appropriate.

#### Respiratory Protection

Under normal conditions, the use of this product should not require respiratory protection.

## SAFETY DATA SHEET

Document ID: ODR3021-75 Version 05  
Revision Date (year/month/day) 2019/03/12  
Last Revision Date (year/month/day) 2015/03/20

### Section 9 Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Specific Gravity (Water=1.0)</b>	1.03
<b>Color</b>	Amber	<b>Solubility</b>	
<b>Transparency</b>	Clear	<b>Water</b>	Miscible
<b>Odor</b>	Mild odor	<b>Organic</b>	Not determined
<b>pH</b>	7 @20°C	<b>Partition coefficient: n-octanol/water</b>	Not determined
<b>Freezing Point</b>	Similar to water, approximately 0°C	<b>Auto-ignition Temp.</b>	Product is not selfigniting
<b>Boiling Point</b>	Similar to water, approximately 100°C	<b>Decomposition Temperature</b>	Not determined
<b>Flash Point</b>	Not applicable	<b>Percent Volatiles</b>	Not applicable
<b>Evaporation Rate</b>	Not determined	<b>Vapor Pressure</b>	Similar to water, approximately 23 hPa
<b>Flammability (Solid, Gas)</b>	Not applicable	<b>Viscosity</b>	Not determined
<b>Flammability Limits</b>	Not applicable	<b>Explosive Properties</b>	Not applicable
<b>Vapor Density</b>	Not determined	<b>Oxidizing Properties</b>	Not applicable
<b>Odor Threshold</b>	Not applicable		

**9.2 Other Information** No further relevant information available.

### Section 10 Stability and Reactivity

<b>10.1 Reactivity</b>	No further relevant information available.
<b>10.2 Chemical Stability</b>	The product is stable in accordance with recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.
<b>10.4 Conditions to Avoid</b>	Avoid contact with incompatible materials. Avoid exposure to heat and direct sunlight.
<b>10.5 Incompatible materials</b>	Metals and metallic compounds
<b>10.6 Hazardous Decomposition Products</b>	When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.

## SAFETY DATA SHEET

Document ID: ODR3021-75 Version 05  
Revision Date (year/month/day) 2019/03/12  
Last Revision Date (year/month/day) 2015/03/20

### Section 11 Toxicological Information

#### 11.1 Information on toxicological effects

##### Toxicity Data for Hazardous Ingredients

Sodium Azide  
CAS # 26628-22-8

Dermal LD50 Rabbit 20 mg/kg; Oral LD50 Rat 27 mg/kg

##### Primary Routes of Exposure

Common routes of entry include inhalation, ingestion and eye/skin contact. Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of aerosolized material.

##### Acute Toxicity

Not classified based on available data.

##### Skin Corrosion/Irritation

Not classified based on available data.

##### Serious eye damage/eye irritation

Not classified based on available data.

##### Respiratory/skin sensitization

Not classified based on available data.

##### Carcinogenicity

No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

##### Germ cell mutagenicity

Not classified based on available data.

##### Reproductive Toxicity

Not classified based on available data.

##### Specific target organ toxicity – single exposure

Not classified based on available data.

##### Specific target organ toxicity – repeated exposure

Not classified based on available data.

##### Aspiration hazard

Not classified based on available data.

##### Other Information

This product contains material of human origin and should be considered as potentially capable of transmitting infectious diseases.

### Section 12 Ecological Information

#### 12.1 Ecotoxicity

##### Fresh Water Species

Sodium Azide  
CAS # 26628-22-8

96 h LC50 Oncorhynchus mykiss: 0.8 mg/L; 96 h LC50 Lepomis macrochirus: 0.7 mg/L; 96 h LC50 Pimephales promelas: 5.46 mg/L [flow-through]

##### Microtox

No information available.

##### Water Flea

No information available.

##### Fresh Water Algae

No information available.

12.2 Persistence and degradability Not determined for the product.

12.3 Bioaccumulation Not determined for the product.

12.4 Mobility in soil Not determined for the product.

## **SAFETY DATA SHEET**

Document ID: ODR3021-75 Version 05  
Revision Date (year/month/day) 2019/03/12  
Last Revision Date (year/month/day) 2015/03/20

---

### **Section 12 Ecological Information (Continued)**

---

#### **12.5 Results of PBT and vPvB assessment**

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

#### **12.6 Other Adverse Effects**

This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

---

### **Section 13 Disposal Considerations**

---

#### **13.1 Waste treatment methods**

##### **Product Waste Disposal**

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

Dispose of as potentially biohazardous waste and in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or approved waste-disposal company for information.

##### **Package disposal**

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

#### **13.2 Additional information**

Suggested European waste catalogue 18 01 03\* - wastes whose collection and disposal is subject to special requirements in order to prevent infection. Dispose in accordance with national, state and local waste regulations

---

### **Section 14 Transport Information**

---

Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG.

**14.1 UN/ID Number:** Not regulated for transportation

**14.2 Shipping Name:** Not regulated for transportation

**14.3 Hazard Class:** Not regulated for transportation

**14.4 Packing Group:** Not regulated for transportation

**14.5 Environmental Hazards:** Not regulated for transportation

**14.6 Special Precautions for user:** None

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Not applicable

## Section 15 Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### US Federal and State Regulations

##### **SARA 313 (Section 313, Title III reporting requirements)**

CAS # 26628-22-8 Sodium Azide 1.0% de minimis concentration

##### **CERCLA (The Comprehensive Environmental Response, Compensation, and Liability Act) 40 CFR 302.4**

CAS # 26628-22-8 Sodium Azide

##### **California Proposition 65**

**⚠ WARNING** This product can expose you to chemical which is known to the State of California to cause cancer and/or reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

##### **Chemical which is known to the State of California to cause cancer**

No ingredients listed.

##### **Chemical which is known to the State of California to cause development toxicity**

CAS # 1405-10-3 Neomycin Sulfate  
CAS # 3810-74-0 Streptomycin Sulphate  
CAS # 1405-41-0 Gentamicin Sulfate

##### **Chemical which is known to the State of California to cause male reproductive toxicity**

No ingredients listed.

##### **Chemical which is known to the State of California to cause female reproductive toxicity**

No ingredients listed.

##### **Massachusetts Right To Know (RTK) List**

CAS # 56-75-7 Chloramphenicol  
CAS # 26628-22-8 Sodium Azide

##### **New Jersey Dept. of Health Right To Know (RTK) List**

CAS # 26628-22-8 Sodium Azide

##### **Pennsylvania Right To Know (RTK) List**

CAS # 56-75-7 Chloramphenicol  
CAS # 26628-22-8 Sodium Azide

##### **EU Regulations**

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

##### **REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.**

No ingredients listed.

##### **Canada**

This product is exempt from WHMIS label and SDS requirements.

### 15.2 Chemical Safety Assessment



## SAFETY DATA SHEET

Document ID: ODR3021-75 Version 05  
Revision Date (year/month/day) 2019/03/12  
Last Revision Date (year/month/day) 2015/03/20

### Section 15 Regulatory Information (Continued)

A Chemical Safety Assessment has not been carried out.

*Some hazardous ingredients listed in Section 15 are below the cutoff limits of 0.1% for Carcinogen, mutagen and reproductive toxin and 1% for other health hazards required for reporting in Section 3*

### Section 16 Other Information

<b>Beckman Coulter Safety Rating</b>	<b>Flammability: 0</b> <b>Health: 1</b> <b>Reactivity with Water: 0</b> <b>Physical Contact: 1</b>	Code 0=None 1=Slight 2=Caution 3=Severe
--------------------------------------	---	---

**Revision Changes**  
Updated the label elements in Sec. 2.2.  
Removed the classification of EC Directives 1999/45/EC and 67/548/EEC from Sec. 2.1.  
Updated hazardous ingredients in Section 3.  
Updated Section 15 Regulatory Information.  
Updated section 4, 6, 8, 10, 11, 14, 16.

#### Document version and issue/revision date

Revision Date (year/month/day) 2019/03/12  
Last Revision Date (year/month/day) 2015/03/20  
Document ID: ODR3021-75  
Version: 05

#### Description of hazard Class and hazard statements from Section 3

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1  
Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2  
Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1  
H300 - Fatal if swallowed.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.

#### Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists  
ADR and RID - European Agreement Concerning The International Carriage Of Dangerous Goods By Road and Rail  
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act  
CLP - Classification, Labeling and Packaging  
DFGMAK - Republic Germany's maximum exposure limit  
GHS - Globally Harmonized System  
HCS - Hazard Communication Standard  
IARC - International Agency for Research on Cancer  
IATA DGR - International Air Transport Association Dangerous Goods Regulation  
ICAO - International Civil Aviation Organization  
IMDG - International Maritime Dangerous Goods  
IOELVs - European Unions' Indicative Occupational Exposure Limit Values  
NIOSH - National Institute for Occupational Safety and Health  
NTP - National Toxicology Program

## **SAFETY DATA SHEET**

Document ID: ODR3021-75 Version 05  
Revision Date (year/month/day) 2019/03/12  
Last Revision Date (year/month/day) 2015/03/20

---

### **Section 16 Other Information (Continued)**

---

OSHA - Occupational Safety and Health Administration  
PBT - Persistent bioaccumulative and toxic substances  
SARA - Superfund Amendments and Reauthorization Act  
TDG - Canadian Transportation Of Dangerous Goods Regulations.  
UN GHS - United Nations Globally Harmonized System  
US DOT - United States Department of Transportation  
WHMIS - Workplace Hazardous Material Information System  
vPvB - Very persistent and very bioaccumulative substances  
LC50 - Lethal Concentration, 50%  
LD50 - Lethal Dose, 50%

---

For further information, please contact your local Beckman Coulter, Inc. representative.

WHILE BECKMAN COULTER, INC. BELIEVES THE INFORMATION CONTAINED HEREIN IS VALID AND ACCURATE, BECKMAN COULTER, INC. MAKES NO WARRANTY OR REPRESENTATION AS TO ITS VALIDITY, ACCURACY, OR CURRENCY. BECKMAN COULTER, INC. SHALL NOT BE LIABLE OR OTHERWISE RESPONSIBLE IN ANY WAY FOR USE OF EITHER THIS INFORMATION OR MATERIALS TO WHICH IT APPLIES. DISPOSAL OF HAZARDOUS MATERIALS MAY BE SUBJECT TO LOCAL LAWS OR REGULATIONS.