

## Safety Data Sheet acc. to OSHA HCS

Date Prepared: 05/09/2016

Reviewed On: 12/07/2015

### 1 Identification

- **Product Identifier:**
- **Product Name:** Salmonella O Antiserum Group D1 Factor 1,9,12
- **Catalog Number:** 229511
- **Application of the substance / the mixture** Laboratory Chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
BD Diagnostic Systems  
7 Loveton Circle  
Sparks, MD 21152  
Telephone: (410) 771 - 0100 or (800) 638 – 8663  
Email Address: Technical\_Services@bd.com
- **Information Department:** Technical Service
- **Emergency telephone number:**  
In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



Acute Tox. 4 H302 Harmful if swallowed.

- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



- **Signal word** Warning
- **Hazard-determining components of labeling:**  
sodium azide
- **Hazard statements**  
H302 Harmful if swallowed.
- **Precautionary statements**  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P330 Rinse mouth.

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P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **NFPA ratings (scale 0-4)**



Health = 2  
Flammability = 0  
Reactivity = 0

· **HMIS ratings (scale 0-4)**



Health = 2  
Flammability = 0  
Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixture**
- **Description:** Mixture consisting of the following components.

· **Dangerous Components:**

|                   |                                                                    |      |
|-------------------|--------------------------------------------------------------------|------|
| CAS: 26628-22-8   | sodium azide                                                       | 0.2% |
| EINECS: 247-852-1 | Acute Tox. 2, H300; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 |      |

- **Additional information** Risk phrases refer to section 15.

### 4 First-aid measures

- **Description of first aid measures**
- **General information**  
Symptoms of poisoning may even occur after several hours; therefore provide medical observation for at least 48 hours after the accident.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor** Show this product label or this SDS.
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**  
No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Wipe up with damp sponge or mop.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling**
- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:**  
No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:**  
Store away from oxidizing agents.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed containers.
- **Specific end use(s)** No further relevant information available.

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### 8 Exposure controls/personal protection

· **Additional information about design of technical systems:**

No further data; see Section 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

**26628-22-8 sodium azide**

REL Short-term value: C 0.3\*\* mg/m<sup>3</sup>, C 0.1\* ppm  
\*as HN<sub>3</sub> vapor; \*\*as NaN<sub>3</sub>; Skin

TLV Short-term value: C 0.29\*\* mg/m<sup>3</sup>, C 0.11\* ppm  
\*as HN<sub>3</sub> vapor \*\*as NaN<sub>3</sub>

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal Protective Equipment**

· **General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:** Not required.

· **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

· **Eye protection:** Safety glasses

· **Body protection:** Protective work clothing (lab coat).

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Liquid

Color: Gold

Amber

· **Odor:** Characteristic

· **pH-value:** Not applicable

· **Change in condition** Undetermined

· **Melting point/Melting range:** Not determined

· **Boiling point/Boiling range:** Not determined

· **Flash point:** Not applicable

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- |                                                  |                                               |
|--------------------------------------------------|-----------------------------------------------|
| <b>· Auto igniting:</b>                          | Product is not self igniting.                 |
| <b>· Danger of explosion:</b>                    | Product does not present an explosion hazard. |
| <b>· Density:</b>                                | Not determined                                |
| <b>· Solubility in / Miscibility with Water:</b> | Soluble                                       |
| <b>· Other information</b>                       | No further relevant information available.    |

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:**  
Incompatible materials: acidic material and metals  
Incompatible material: strong oxidizers.
- **Hazardous decomposition products:** No dangerous decomposition products known.
- **Additional information:**  
Sodium azide is present in this product. Contact with acidic solutions and metal compounds over time may form potentially explosive metal azides. Should any of this material be introduced into a sanitary sewer system, flush with copious amounts of water.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- |                                                               |
|---------------------------------------------------------------|
| <b>· LD/LC50 values that are relevant for classification:</b> |
|---------------------------------------------------------------|

**26628-22-8 sodium azide**

|      |      |                |
|------|------|----------------|
| Oral | LD50 | 27 mg/kg (rat) |
|------|------|----------------|

- **Primary irritant effect:**
- **on the skin:** No irritating effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to OSHA classification according to internally approved calculation methods for preparations.  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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This product or product container contains dry natural rubber latex.

**· Carcinogenic categories****· IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

**· NTP (National Toxicology Program)**

None of the ingredients is listed.

**· OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

**· Toxicity**

**· Aquatic toxicity:** No further relevant information available.

**· Persistence and degradability** No further relevant information available.

**· Behavior in environmental systems:**

**· Bioaccumulative potential** No further relevant information available.

**· Mobility in soil** No further relevant information available.

**· Ecotoxicological effects:****· Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

**· Results of PBT and vPvB assessment**

**· PBT:** Not applicable.

**· vPvB:** Not applicable.

**· Other adverse effects** No further relevant information available.

### 13 Disposal considerations

**· Waste treatment methods****· Recommendation**

Smaller quantities can be disposed of with solid waste.

This product is not considered a RCRA hazardous waste.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.

**· Uncleaned packagings:**

**· Recommendation:** Disposal must be made according to state and federal regulations.

**· Recommended cleansing agent:** Water, if necessary with cleansing agents.

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**14 Transport information**

|                                                                                  |                                                                                                                                               |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| · <b>UN-Number</b>                                                               |                                                                                                                                               |
| · <b>DOT, ADN, IMDG, IATA</b>                                                    | Void                                                                                                                                          |
| · <b>UN proper shipping name</b>                                                 |                                                                                                                                               |
| · <b>DOT, ADN, IMDG, IATA</b>                                                    | Void                                                                                                                                          |
| · <b>Transport hazard class(es)</b>                                              |                                                                                                                                               |
| · <b>DOT, ADN, IMDG, IATA</b>                                                    |                                                                                                                                               |
| · <b>Class</b>                                                                   | Void                                                                                                                                          |
| · <b>Packing group</b>                                                           |                                                                                                                                               |
| · <b>DOT, IMDG, IATA</b>                                                         | Void                                                                                                                                          |
| · <b>Environmental hazards:</b>                                                  |                                                                                                                                               |
| · <b>Marine pollutant:</b>                                                       | No                                                                                                                                            |
| · <b>Special precautions for user</b>                                            | Not applicable.                                                                                                                               |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                                                                                                               |
| · <b>Transport/Additional information:</b>                                       | If "void" appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation. |
| · <b>UN "Model Regulation":</b>                                                  | Void                                                                                                                                          |

**15 Regulatory information**

|                                                                                                         |
|---------------------------------------------------------------------------------------------------------|
| · <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> |
| · <b>SARA Section 355 (extremely hazardous substances)</b>                                              |
| 26628-22-8 sodium azide                                                                                 |
| · <b>SARA Section 313 (specific toxic chemical listings)</b>                                            |
| 26628-22-8 sodium azide                                                                                 |
| · <b>TSCA (Toxic Substances Control Act)</b>                                                            |
| 26628-22-8 sodium azide                                                                                 |
| · <b>California Proposition 65 - Chemicals known to cause cancer</b>                                    |
| None of the ingredients is listed.                                                                      |

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· **California Proposition 65 - Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **California Proposition 65 - Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **California Proposition 65 - Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **TLV (Threshold Limit Value established by ACGIH)**

26628-22-8 sodium azide

A4

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**

sodium azide

· **Hazard statements**

H302 Harmful if swallowed.

· **Precautionary statements**

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

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**· Department issuing SDS:**

Environmental, Health &amp; Safety

Created by Michael J. Spinazzola

**· Contact:** Technical Service Representative**· Date of preparation / last revision** 05/09/2016 / -**· Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

BEI: Biological Exposure Limit

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1