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SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
222641	BD Difco™ Salmonella O Antiserum Poly A-I & Vi, 3 mL	No data available
228141	Vial Sal O Antiserum Factor 2 Group A	No data available
226591	Vial Sal O Antiserum Factor 4 Grp B 3MI	No data available
228151	Vial Sal O Antiserum Factors 4& 5 Grp B	No data available
226601	Vial Sal O Antiserum Factor 5 Grp B 3MI	No data available
228161	Vial Sal O Antiserum Factor 7 Grp C1	No data available
228171	Vial Sal O Antiserum Factor 8 Grp C2&C3	No data available
228181	Vial Sal O Antiserum Factor 9 Group D	No data available
222571	Vial Sal O Antis Factor 10 Grp E1 3MI	No data available



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227791	Vial Sal O Antiserum Factor 12	No data available
226611	Vial Sal O Antiserum Factor 14 3MI	No data available
222581	Vial Sal O Antis Factor 15 Lyophilized	No data available
222591	Vial Sal O Antis Factor 19 Grp E4 3MI	No data available
226621	Vial Sal O Antiserum Factor 20 3MI	No data available
226631	Vial Sal O Antiserum Factor 22 Grp G1 3M	No data available
226641	Vial Sal O Antiserum Factor 23 Grp G2 3M	No data available
226661	Vial Sal O Antiserum Factor 25 3MI	No data available
226671	Vial Sal O Antiserum Factor 27 3MI	No data available
211778	Vial Sal O Antiserum Factor 34 Group E3	No data available
229471	Salmonella O Antiserum Group A Factors 1,2,12	No data available
229481	Salmonella O Antiserum Group B Factors 1, 4	No data available
229731	Vial Sal O Antis Grp B Ftr 1/4/12/27 Lyo	No data available



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229491	Salmonella O Antiserum Group C1 Factors 6,7	No data available
229501	Salmonella O Antiserum Group C2 Factors 6,8	No data available
230161	Vial Sal O Antiserum Grp C3 Ftr 8/20 Lyo	No data available
229511	Salmonella O Antiserum Group D1 Factor 1,9,12	No data available
230171	Salmonella O Antiserum Group D2 Factors 9 (46)	No data available
228191	Salmonella O Antiserum Group E Factors 1,3,10	No data available
229521	Vial Sal O Antis Group E1 Ftr 3/10 Lyo	No data available
229541	Vial Sal O Antis Group E2 Ftr 3/15 Lyo	No data available
230181	Vial Sal O Antis Grp E3 Factor 3/15/34	No data available
230191	Vial Sal O Antis Group E4 Ftr 1/3/19 Lyo	No data available
222601	Vial Sal O Antiserum Group F Lyophilized	No data available
230291	Vial Sal O Antis Group G Fact 1/13/22/23	No data available
222611	Vial Sal O Antis Group G1 Fact 1/13/22	No data available



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230201	Vial Sal O Antis Group G2 Fact 1/13/23	No data available
222621	Vial Sal O Antiserum Group H Lyophilized	No data available
222631	Vial Sal O Antiserum Group I Lyophilized	No data available
211780	Vial Sal O Antiserum Group J Lyophilized	No data available
225181	Vial Sal O Antiserum Group K Lyophilized	No data available
225191	Vial Sal O Antiserum Group L Lyophilized	No data available
211781	Vial Sal O Antiserum Group M Lyophilized	No data available
211783	Vial Sal O Antiserum Group N Lyophilized	No data available
225221	Vial Sal O Antiserum Group O Lyophilized	No data available
225341	Vial Sal O Antiserum Poly A Lyophilized	No data available
225351	Vial Sal O Antiserum Poly B Lyophilized	No data available
225361	Vial Sal O Antiserum Poly C Lyophilized	No data available
225371	Vial Sal O Antiserum Poly D Lyophilized	No data available

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225381	Vial Sal O Antiserum Poly E Lyophilized	No data available
226451	Vial Sal O Antiserum Poly F Lyophilized	No data available
226461	Vial Sal O Antiserum Poly G Lyophilized	No data available
228271	Salmonella Vi Antiserum	No data available

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

Identified uses: Scientific and industrial laboratory use. For In Vitro Diagnostic Use.

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Manufacturer

BD, Integrated Diagnostic Solutions
11, rue Aristide Bergès
Le Pont de Claix 38800
France

Telephone: 33 476 68 36 36

Contact Person: BD Diagnostic Systems Europe - Regulatory Compliance Department

E-mail: msds_europe@bd.com

1.4 Emergency telephone number: CHEMTREC 1 800 424 9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Acute toxicity (Oral)

Category 4

H302: Harmful if swallowed.

2.2 Label Elements

Contains:

Sodium azide (Na(N3))

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Signal Word: Warning

Hazard Statement(s): H302: Harmful if swallowed.

Precautionary Statements

Prevention: P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.

Response: P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330: Rinse mouth.

Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

2.3 Other hazards No data available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
sodium azide	0.1 - <0.25%	26628-22-8	247-852-1	No data available.	No data available.	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

Classification

Chemical name	CLP Classification	Notes
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sodium azide	Acute Tox.: 2: H300Aquatic Acute: 1: H400Aquatic Chronic: 1: H410	No data available.
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Regulation No. 1272/2008.
The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General: Get immediate medical advice/attention.

4.1 Description of first aid measures

Inhalation: No specific precautions due to the small quantities handled.

Eye contact: If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

Skin Contact: Flush contaminated area with plenty of water.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed: No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: Harmful if swallowed.

Treatment: No data available.

SECTION 5: Firefighting measures

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.



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- 5.1 Extinguishing media**
- Suitable extinguishing media:** Water spray, fog, CO₂, dry chemical, or alcohol resistant foam.
- Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.
- 5.2 Special hazards arising from the substance or mixture:** Fire or excessive heat may produce hazardous decomposition products.
- 5.3 Advice for firefighters**
- Special fire fighting procedures:** No unusual fire or explosion hazards noted.
- Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.
- 6.2 Environmental Precautions:** Do not release into the environment. Environmental manager must be informed of all major spillages.
- 6.3 Methods and material for containment and cleaning up:** Sweep up and place in a clearly labeled container for chemical waste. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS. Do not allow product to reach sewage system or any water course.
- 6.4 Reference to other sections:** No data available.

SECTION 7: Handling and storage:

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7.1 Precautions for safe handling:

Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, on clothing. Do not eat, drink or smoke when using the product. Read and follow manufacturer's recommendations. Wash promptly with soap and water if skin becomes contaminated. Use personal protective equipment as required.

7.2 Conditions for safe storage, including any incompatibilities:

Store in tightly closed original container in a dry, cool and well-ventilated place.

7.3 Specific end use(s):

Reserved for industrial and professional use.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
sodium azide - as NaN ₃	TWA	0.1 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (2007)
	STEL	0.3 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (2007)
sodium azide	STEL	0.3 mg/m ³	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009)
	TWA	0.1 mg/m ³	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009)

Biological Limit Values

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None.

8.2 Exposure controls

Appropriate Engineering Controls: Adequate ventilation should be provided so that exposure limits are not exceeded.

Individual protection measures, such as personal protective equipment

General information: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin protection

Hand Protection: Use suitable protective gloves if risk of skin contact.

Other: Wear appropriate clothing to prevent reasonably probable skin contact.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Hygiene measures: Do not eat, drink or smoke when using the product. Do not get this material in contact with skin. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray.

Environmental Controls: Data available upon request.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Appearance

Physical state:	Solid
Form:	Solid
Color:	According to product specification.
Odor:	Characteristic
Odor Threshold:	No data available.
pH:	No data available.
Melting Point:	No data available.
Boiling Point:	No data available.
Flash Point:	Not applicable
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Relative vapor density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	Completely Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
SADT:	No data available.
Viscosity:	Not determined.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

9.2 Other information

Molecular weight:	No data available.
VOC Content:	No data available.
Bulk density:	No data available.
Dust Explosion Limit, Upper:	No data available.
Dust Explosion Limit, Lower:	No data available.
Dust Explosion Description	No data available.

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Number Kst:

Minimum ignition energy: No data available.

Minimum ignition temperature: No data available.

Metal Corrosion: No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: No data available.

10.2 Chemical Stability: No data available.

10.3 Possibility of hazardous reactions: Not known.

10.4 Conditions to avoid: Not known.

10.5 Incompatible Materials: Strong acids. Strong oxidizing agents. Metals. 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.

10.6 Hazardous Decomposition Products: Not known.

SECTION 11: Toxicological information

General information: Harmful if swallowed.

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: Harmful if swallowed.

Skin Contact: No data available.

Eye contact: No data available.

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11.1 Information on toxicological effects

Acute toxicity

Oral

Product: Harmful if swallowed.

Specified substance(s)

sodium azide TD Lo (Rat): 2,730 mg/kg 78 weeks continuous TD (Rat): 5,460 mg/kg 78 weeks continuous LD 50 (Rat): 27 mg/kg LD 50 (Mouse): 27 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

sodium azide No data available.

Inhalation

Product: No data available.

Specified substance(s)

sodium azide No data available.

Repeated dose toxicity

Product: No data available.

Specified substance(s)

sodium azide LOAEL (Rat(Female, Male), Oral, 13 Weeks): 20 mg/kg
LOAEL (Rat(Female, Male), Oral, 103 Weeks): 5 mg/kg

Skin

Corrosion/Irritation:

Product: No data available.

Specified substance(s)

sodium azide Based on available data, the classification criteria are not met.

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Serious Eye Damage/Eye Irritation:

Product: No data available.

Specified substance(s)

sodium azide No data available.

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

sodium azide Not a skin sensitizer.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

sodium azide No data available.

In vivo

Product: No data available.

Specified substance(s)

sodium azide No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

sodium azide No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

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sodium azide No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

sodium azide No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

sodium azide No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

sodium azide No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

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sodium azide LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 5.46 mg/l Mortality
LC 50 (Rainbow trout,donaldson trout (*Oncorhynchus mykiss*), 96 h): 4.6 mg/l (Static) Mortality
LC 50 (Northern squawfish (*Ptychocheilus oregonensis*), 24 h): < 10 mg/l (Static) Mortality
LC 50 (Trout family (*Salmonidae*), 24 h): < 10 mg/l Mortality
LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 5.091 - 5.871 mg/l (Flow through) Mortality

Aquatic Invertebrates

Product:

The product contains a substance which is toxic to aquatic organisms.

Specified substance(s)

sodium azide LC 50 (Water flea (*Simocephalus serrulatus*), 48 h): 6.4 mg/l
LC 50 (Water flea (*Daphnia pulex*), 48 h): 4.2 mg/l
LC 50 (Crayfish (*Orconectes rusticus*), 96 h): < 1 mg/l (Static)
LC 50 (Red swamp crayfish (*Procambarus clarkii*), 48 h): 0.4 - 0.6 mg/l
LC 50 (*Procambarus clarkii*, 48 h): > 0.4 - 0.6 mg/l (Static)
Experimental result, Weight of Evidence study

Chronic Toxicity

Fish

Product:

No data available.

Specified substance(s)

sodium azide No data available.

Aquatic Invertebrates

Product:

The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Specified substance(s)

sodium azide No data available.

Toxicity to Aquatic Plants

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Product: No data available.

Specified substance(s)

sodium azide EC 50 (Algae (*Pseudokirchneriella subcapitata*), 96 h): 0.35 mg/l
EC 50 (Green algae (*Chlorococcum*), 24 h): 176 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

sodium azide No data available.

BOD/COD Ratio

Product No data available.

Specified substance(s)

sodium azide No data available.

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

sodium azide No data available.

12.4 Mobility in soil:

Product: No data available.

Specified substance(s)

sodium azide No data available.

12.5 Results of PBT and vPvB assessment:

Product: No data available.

Specified substance(s)

sodium azide No data available.

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations

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13.1 Waste treatment methods

General information: Dispose of waste and residues in accordance with local authority requirements. Smaller quantities can be disposed of with household waste

Disposal methods: Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: Transport information

ADR

- | | |
|------------------------------------|----------------|
| 14.1 UN Number: | Not regulated. |
| 14.2 UN Proper Shipping Name: | Not regulated. |
| 14.3 Transport Hazard Class(es) | |
| Class: | Not regulated. |
| Label(s): | Not regulated. |
| Hazard No. (ADR): | Not regulated. |
| Tunnel restriction code: | Not regulated. |
| 14.4 Packing Group: | Not regulated. |
| 14.5 Environmental Hazards: | Not regulated. |
| Marine Pollutant: | Not regulated. |
| 14.6 Special precautions for user: | Not regulated. |

ADN

- | | |
|---------------------------------|----------------|
| 14.1 UN Number: | Not regulated. |
| 14.2 UN Proper Shipping Name: | Not regulated. |
| 14.3 Transport Hazard Class(es) | |
| Class: | Not regulated. |
| Label(s): | Not regulated. |
| Hazard No. (ADR): | Not regulated. |
| Tunnel restriction code: | Not regulated. |
| 14.4 Packing Group: | Not regulated. |
| 14.5 Environmental Hazards: | Not regulated. |
| Marine Pollutant: | Not regulated. |



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14.6 Special precautions for user: Not regulated.

RID

14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es)
Class: Not regulated.
Label(s): Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards:
Marine Pollutant: Not regulated.
14.6 Special precautions for user: Not regulated.

IMDG

14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es)
Class: Not regulated.
Label(s): Not regulated.
EmS No.: Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards:
Marine Pollutant: Not regulated.
14.6 Special precautions for user: Not regulated.

IATA

14.1 UN Number: Not regulated.
14.2 Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es):

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Class:	Not regulated.
Label(s):	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.
14.6 Special precautions for user:	Not regulated.

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:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

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Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:

Chemical name	CAS-No.	Concentration
sodium azide	26628-22-8	0.1 - 1.0%

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
sodium azide	26628-22-8	0.1 - 1.0%

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Not relevant.

References

PBT PBT: persistent, bioaccumulative and toxic substance.
vPvB vPvB: very persistent and very bioaccumulative substance.

Key literature references and sources for data: No data available.

Wording of the H-statements in section 2 and 3

H302 Harmful if swallowed.
H300 Fatal if swallowed.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Training information: No data available.

Classification according to Regulation (EC) No 1272/2008 as amended.

Acute Tox. 4, H302



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Disclaimer:

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