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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)
224061	Vial Sal H Antis Poly 3MI	No data available
228201	BD Difco™ Salmonella H Antiserum a, 3 mL	No data available
228211	BD Difco™ Salmonella H Antiserum b, 3 mL	No data available
228221	BD Difco™ Salmonella H Antiserum c, 3 mL	No data available
228231	BD Difco™ Salmonella H Antiserum d, 3 mL	No data available
222731	BD Difco™ Salmonella H Antiserum eh, 3 mL	No data available
225441	BD Difco™ Salmonella H Antiserum Single Factor f, 3 mL	No data available
225451	BD Difco™ Salmonella H Antiserum Single Factor h, 3 mL	No data available
228241	BD Difco™ Salmonella H Antiserum i, 3 mL	No data available



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222741	BD Difco™ Salmonella H Antiserum k, 3 mL	No data available
225461	BD Difco™ Salmonella H Antiserum Single Factor m, 3 mL	No data available
225481	BD Difco™ Salmonella H Antiserum Single Factor p, 3 mL	No data available
222751	BD Difco™ Salmonella H Antiserum r, 3 mL	No data available
225501	BD Difco™ Salmonella H Antiserum Single Factor s, 3 mL	No data available
225511	BD Difco™ Salmonella H Antiserum Single Factor t, 3 mL	No data available
225541	BD Difco™ Salmonella H Antiserum Single Factor w, 3 mL	No data available
225551	BD Difco™ Salmonella H Antiserum Single Factor x, 3 mL	No data available
222761	BD Difco™ Salmonella H Antiserum y, 3 mL	No data available
222771	BD Difco™ Salmonella H Antiserum z, 3 mL	No data available
224731	BD Difco™ Salmonella H Antiserum z6, 3 mL	No data available



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222791	BD Difco™ Salmonella H Antiserum z10, 3 mL	No data available
225571	BD Difco™ Salmonella H Antiserum Single Factor z15, 3 mL	No data available
225581	BD Difco™ Salmonella H Antiserum Single Factor z23, 3 mL	No data available
225611	BD Difco™ Salmonella H Antiserum Single Factor z28, 3 mL	No data available
222801	BD Difco™ Salmonella H Antiserum z29, 3 mL	No data available
225621	BD Difco™ Salmonella H Antiserum Single Factor z32, 3 mL	No data available
222701	BD Difco™ Salmonella H Antiserum EN Complex, 3 mL	No data available
222691	BD Difco™ Salmonella H Antiserum G Complex, 3 mL	No data available
222711	BD Difco™ Salmonella H Antiserum L Complex, 3 mL	No data available
222781	BD Difco™ Salmonella H Antiserum Z4 Complex, 3 mL	No data available



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225391	BD Difco™ Salmonella H Antiserum Poly A, 3 mL	No data available
225401	BD Difco™ Salmonella H Antiserum Poly B, 3 mL	No data available
225411	BD Difco™ Salmonella H Antiserum Poly C, 3 mL	No data available
225421	BD Difco™ Salmonella H Antiserum Poly D, 3 mL	No data available
225431	BD Difco™ Salmonella H Antiserum Poly E, 3 mL	No data available
224741	BD Difco™ Salmonella H Antiserum Single Factor 2, 3 mL	No data available
224751	BD Difco™ Salmonella H Antiserum Single Factor 5, 3 mL	No data available
224761	BD Difco™ Salmonella H Antiserum Single Factor 6, 3 mL	No data available
224771	BD Difco™ Salmonella H Antiserum Single Factor 7, 3 mL	No data available
222651	BD Difco™ Salmonella H Antiserum Spicer-Edwards 1, 3 mL	No data available
222661	BD Difco™ Salmonella H Antiserum Spicer-Edwards 2, 3 mL	No data available

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222671	BD Difco™ Salmonella H Antiserum Spicer-Edwards 3, 3 mL	No data available
222681	BD Difco™ Salmonella H Antiserum Spicer-Edwards 4, 3 mL	No data available
222721	BD Difco™ Salmonella H Antiserum 1 Complex, 3 mL	No data available

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

Identified uses: Laboratory Chemicals

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

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Signal Word: Warning

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

Precautionary Statements

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

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

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 medical attention if symptoms occur.

4.1 Description of first aid measures

Inhalation: Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

Eye contact: Flush thoroughly with water. If irritation occurs, get medical assistance.

Skin Contact: Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

Ingestion: Get medical attention if symptoms occur.

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 spray to keep fire-exposed containers cool.



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- 5.1 Extinguishing media**
Suitable extinguishing media: Water spray, fog, CO₂, dry chemical, or alcohol resistant foam.
- Unsuitable extinguishing media:** None known.
- 5.2 Special hazards arising from the substance or mixture:** None known.
- 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:** No special precautionary health measures should be needed under anticipated conditions of use.
- 6.2 Environmental Precautions:** Avoid release to the environment.
- 6.3 Methods and material for containment and cleaning up:** No specific clean-up procedure noted.
- 6.4 Reference to other sections:** No data available.

SECTION 7: Handling and storage:

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7.1 Precautions for safe handling: When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

7.2 Conditions for safe storage, including any incompatibilities: Store in a cool, dry place. Keep container tightly closed.

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

None.

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8.2 Exposure controls

Appropriate Engineering Controls: No special requirements under ordinary conditions of use and with adequate ventilation.

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: Chemical resistant gloves

Other: Wear a lab coat or similar protective clothing.

Respiratory Protection: Respiratory protection not required.

Hygiene measures: Observe good industrial hygiene practices.

Environmental Controls: Data available upon request.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	According to product specification.
Odor:	Characteristic
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.

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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 Number Kst:	No data available.
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: Material is stable under normal conditions.

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- 10.2 Chemical Stability:** Material is stable under normal conditions.
- 10.3 Possibility of hazardous reactions:** Not known.
- 10.4 Conditions to avoid:** Avoid exposure to high temperatures or direct sunlight.
- 10.5 Incompatible Materials:** Strong oxidizers. 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.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: Harmful if swallowed.

Specified substance(s)

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sodium azide TD Lo (Rat): 2,730 mg/kg 78 weeks continuousTD (Rat): 5,460 mg/kg 78 weeks continuousLD 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: Not classified for acute toxicity based on available data.

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.

Serious Eye Damage/Eye Irritation:

Product: No data available.

Specified substance(s)

sodium azide No data available.

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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)
sodium azide No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)
sodium azide No data available.

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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.

Other adverse effects: None known.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No negative effects on the aquatic environment are known.

Specified substance(s)

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: No negative effects on the aquatic environment are known.

Specified substance(s)

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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 negative effects on the aquatic environment are known.

Specified substance(s)

sodium azide No data available.

Aquatic Invertebrates

Product: No negative effects on the aquatic environment are known.

Specified substance(s)

sodium azide No data available.

Toxicity to Aquatic Plants

Product: No negative effects on the aquatic environment are known.

Specified substance(s)

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

12.2 Persistence and Degradability

Biodegradation

Product: Expected to be readily biodegradable.

Specified substance(s)

sodium azide No data available.

BOD/COD Ratio

Product No data available.

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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: The product is not expected to be hazardous to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose of waste and residues in accordance with local authority requirements.

Disposal methods: No specific disposal method required.

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.

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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.

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: Not regulated.
Marine Pollutant: Not regulated.

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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: Not regulated.
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):
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

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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. 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

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
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sodium azide	26628-22-8	0.1 - 1.0%
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15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: No data available.

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

Issue Date: 25.05.2021
SDS No.: UN000000000000224061-E-01



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