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SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
345249	BD FACS™ Accudrop Beads	No data available

Recommended restrictions

Recommended use: Scientific and industrial laboratory use. For research use only.

Restrictions on use: Not for use in diagnostic or therapeutic procedures.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: Becton, Dickinson and Company - BD Biosciences

Address: 2350 Qume Drive
San Jose, CA 95131
USA

Telephone: 1 877 232 8995 or 1 800 424 9300

Fax: not available

Contact Person: Technical Services

E-mail: ResearchApplications@bd.com or ClinicalApplications@bd.com

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification



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Hazard Classification

Not classified

Label Elements

Hazard Symbol: No symbol
Signal Word: No signal word.
Hazard Statement: Not applicable
Precautionary Statements Not applicable

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
Sodium azide (Na(N ₃))	No data available.	26628-22-8	0.013%

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

4. First-aid measures

Description of first aid measures

General information: Get medical attention if symptoms occur.

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

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

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.



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Ingestion:	Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.
Personal Protection for First-aid Responders:	No data available.
Most important symptoms and effects, both acute and delayed Symptoms:	No data available.
Hazards:	No data available.
Indication of immediate medical attention and special treatment needed	
Treatment:	No data available.

5. Fire-fighting measures

General Fire Hazards:	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool.
Suitable (and unsuitable) extinguishing media	
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Not applicable
Special hazards arising from the substance or mixture:	Fire or excessive heat may produce hazardous decomposition products.
Special protective equipment and precautions for fire-fighters	
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.

6. Accidental release measures



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Personal precautions, protective equipment and emergency procedures:	Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
Accidental release measures:	No data available.
Methods and material for containment and cleaning up:	Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.
Environmental Precautions:	Avoid release to the environment.

7. Handling and storage

Handling

Technical measures:	No data available.
Local/Total ventilation:	No data available.
Safe handling advice:	When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.
Contact avoidance measures:	No data available.

Storage

Safe storage conditions:	Product performance to shelf life is dependent upon long term storage at 2-8°C Store in a cool, dry place. Keep container tightly closed.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters



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Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Sodium azide (Na(N3)) - as HN3	Ceiling	0.1 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Sodium azide (Na(N3)) - as NaN3	Ceiling	0.3 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	Ceiling	0.3 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Sodium azide (Na(N3)) - as HN3	Ceiling	0.1 ppm	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Sodium azide (Na(N3))	AN ESL	0.07 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	0.7 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL	0.2 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	2 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	Ceiling	0.1 ppm 0.3 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
Sodium azide (Na(N3)) - as hydrazoic acid vapor	Ceiling	0.11 ppm	US. ACGIH Threshold Limit Values, as amended
Sodium azide (Na(N3)) - as NaN3	Ceiling	0.29 mg/m3	US. ACGIH Threshold Limit Values, as amended
	Ceil_Time	0.3 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Sodium azide (Na(N3)) - as HN3	Ceil_Time	0.1 ppm	US. NIOSH: Pocket Guide to Chemical Hazards, as amended

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.



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Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection:

Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection:

Material: Chemical resistant gloves

Additional Information: Wash hands after contact. Material: Suitable gloves can be recommended by the glove supplier.

Skin and Body Protection:

Wear a lab coat or similar protective clothing.

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:

Observe good industrial hygiene practices.



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9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	Suspension
Color:	Colorless
Odor:	Odorless
Odor Threshold:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flammability:	No data available.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	No data available.
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	No data available.

Viscosity

Dynamic viscosity:	No data available.
Kinematic viscosity:	No data available.
Flow Time:	No data available.

Solubility(ies)

Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	No data available.
Bulk density:	No data available.
Relative vapor density:	No data available.



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Other information
No data available

10. Stability and reactivity

Reactivity:	Material is stable under normal conditions.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Stable
Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
Incompatible Materials:	Metals. Water reactive material.
Hazardous Decomposition Products:	Stable; however, may decompose if heated.

11. Toxicological information

Information on toxicological effects

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral

Product:	Not classified for acute toxicity based on available data.
Components:	
Sodium azide (Na(N3))	LD 50 (Rat): 27 mg/kg LD 50 (Mouse): 27 mg/kg



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Dermal

Product: Not classified for acute toxicity based on available data.
Components:
Sodium azide (Na(N3)) No data available.

Inhalation

Product: Not classified for acute toxicity based on available data.
Components:
Sodium azide (Na(N3)) No data available.

Repeated dose toxicity

Product: No data available.
Components:
Sodium azide (Na(N3)) No data available.

Skin Corrosion/Irritation

Product: No data available.
Components:
Sodium azide (Na(N3)) No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.
Components:
Sodium azide (Na(N3)) No data available.

Respiratory or Skin Sensitization

Product: No data available.
Components:
Sodium azide (Na(N3)) Not a skin sensitizer.

Carcinogenicity

Product: No data available.
Components:
Sodium azide (Na(N3)) No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities



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Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:
Sodium azide (Na(N3)) No data available.

In vivo

Product: No data available.

Components:
Sodium azide (Na(N3)) No data available.

Reproductive toxicity

Product: No data available.

Components:
Sodium azide (Na(N3)) No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:
Sodium azide (Na(N3)) No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:
Sodium azide (Na(N3)) No data available.

Aspiration Hazard

Product: No data available.

Components:
Sodium azide (Na(N3)) No data available.

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:
Sodium azide (Na(N3)) LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 5.46 mg/l
Mortality



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LC 50 (Rainbow trout,donaldson trout (*Oncorhynchus mykiss*), 96 h): 4.6 mg/l Mortality
LC 50 (Northern squawfish (*Ptychocheilus oregonensis*), 24 h): < 10 mg/l Mortality
LC 50 (Trout family (*Salmonidae*), 24 h): < 10 mg/l Mortality
LC 50 (Rainbow trout,donaldson trout (*Oncorhynchus mykiss*), 24 h): 1 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Components:

Sodium azide (Na(N3)) 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
LC 50 (Red swamp crayfish (*Procambarus clarkii*), 48 h): 0.4 - 0.6 mg/l
LC 50 (Scud (*Gammarus lacustris*), 24 h): 13 - 15 mg/l Mortality

Toxicity to Aquatic Plants

Product: No data available.

Components:

Sodium azide (Na(N3)) EC 50 (Green algae (*Chlorococcum*), 24 h): 176 mg/l

Toxicity to microorganisms

Product: No data available.

Components:

Sodium azide (Na(N3)) No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Sodium azide (Na(N3)) No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Sodium azide (Na(N3)) No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Sodium azide (Na(N3)) No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Sodium azide (Na(N3)) No data available.



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Persistence and Degradability

Biodegradation

Product: No data available.

Components:
Sodium azide (Na(N3)) No data available.

BOD/COD Ratio

Product: No data available.

Components:
Sodium azide (Na(N3)) No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:
Sodium azide (Na(N3)) No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Components:
Sodium azide (Na(N3)) No data available.

Mobility in soil:

Product No data available.

Components:
Sodium azide (Na(N3)) No data available.

Results of PBT and vPvB assessment:

Product No data available.

Components:
Sodium azide (Na(N3)) No data available.

Other adverse effects:

Other hazards

Product: No data available.

13. Disposal considerations



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- General information:** Dispose of waste and residues in accordance with local authority requirements.
- Disposal methods:** Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Contaminated Packaging:** 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.

14. Transport information

DOTUN number or ID number: Not regulated.
UN Proper Shipping Name: Not regulated.
Transport Hazard Class(es)
 Class: Not regulated.
 Label(s): Not regulated.
Packing Group: Not regulated.
Marine Pollutant: Not regulated.
Limited quantity Not regulated.
Excepted quantity Not regulated.

Special precautions for user: Not regulated.

IMDG

UN number or ID number: Not regulated.
UN Proper Shipping Name: Not regulated.
Transport Hazard Class(es)
 Class: Not regulated.
 Subsidiary risk: Not regulated.
 EmS No.: Not regulated.
Packing Group: Not regulated.
Environmental Hazards
 Marine Pollutant: Not regulated.

Special precautions for user: Not regulated.



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IATA

UN number or ID number:	Not regulated.
Proper Shipping Name:	Not regulated.
Transport Hazard Class(es):	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards	
Marine pollutant:	Not regulated.
Special precautions for user:	Not regulated.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.



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CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

SODIUM AZIDE

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Not classified

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting
Quantities and the Comprehensive Environmental Response, Compensation, and Liability
Act (CERCLA) Hazardous Substances**

None present or none present in regulated quantities.

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations



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US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

International regulations

Montreal protocol
Not applicable

Stockholm convention
Not applicable

Rotterdam convention
Not applicable

Kyoto protocol
Not applicable

16. Other information, including date of preparation or last revision
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Issue Date: 02/01/2023

Version #: 2.2

Source of information: European Chemicals Agency (ECHA): Information on Chemicals.

Further Information: No data available.



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