Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product No.:	Product name:	Common name(s), synonym(s)
340955	BD® CD20 (L27) PerCP-Cy5.5	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:	155 North McCarthy Boulevard Milpitas, California 95035 USA
Telephone:	1 877 232 8995 or 1 800 424 9300
Fax:	not available
Contact Person:	Business Unit Product Stewardship Team
E-mail:	BDB-PS-SDS-LABEL@bd.com

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Not classified

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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(N3))	No data available.	26628-22-8	0.0993%

* 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.

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.

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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:	Water spray, foam, dry powder or carbon dioxide. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Avoid water in straight hose stream; will scatter and spread fire.
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

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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:	Store in a cool, dry place. Keep container tightly closed.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values		Source
Sodium azide (Na(N3)) - as HN3	Ceiling	0.1 ppm		OSHA Z1A
Sodium azide (Na(N3)) - as NaN3	Ceiling		0.3 mg/m3	OSHA Z1A
	Ceiling		0.3 mg/m3	TN OEL
Sodium azide (Na(N3)) - as HN3	Ceiling	0.1 ppm		TN OEL
Sodium azide (Na(N3))	AN ESL		0.07 ppb	TX ESL
	ST ESL		0.7 ppb	TX ESL
	AN ESL		0.2 µg/m3	TX ESL
	ST ESL		2 µg/m3	TX ESL
	Ceiling	0.1 ppm	0.3 mg/m3	US CA OEL
Sodium azide (Na(N3)) - as hydrazoic acid vapor	Ceiling	0.11 ppm		ACGIH
Sodium azide (Na(N3)) - as NaN3	Ceiling		0.29 mg/m3	ACGIH
	Ceil_Time		0.3 mg/m3	NIOSH
Sodium azide (Na(N3)) - as HN3	Ceil_Time	0.1 ppm		NIOSH

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.

Biological Limit Values

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

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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.

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Colorless to brown
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:	No data available.
Decomposition Temperature:	No data available.
pH:	7.20 - 7.60

Viscosity

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

Solubility(ies)

Solubility in Water:	Soluble
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.

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

Relative vapor density: No data available.

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 likely routes of exposure

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

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 LD 50, Mouse, 27 mg/kg, 4 = not assignable, Weight of evidence

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

	LD 0, Rat, 40 mg/kg, 3 = not reliable, Weight of evidence TD Lo, Rat, 2,730 mg/kg LD 50, Rat, 27 mg/kg, 4 = not assignable, Weight of evidence TD, Rat, 5,460 mg/kg LD 50, Rat, 42 mg/kg, 3 = not reliable, Weight of evidence LD 50, Mouse, 37.4 mg/kg, 4 = not assignable, Weight of evidence

Dermal

Product:	Not classified for acute toxicity based on available data.
Components:	
Sodium azide (Na(N3))	LD 50, Rabbit, 20 mg/kg LD 50, Rabbit, 20 mg/kg

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))	LOAEL Rat, female, Oral, 16 d, 20 mg/kg, Oral Experimental result, Supporting study NOAEL Rat, Oral, 16 d, 10 mg/kg, Oral Experimental result, Supporting study LOAEL Rat, Female, Male, Oral, 103 Weeks, 5 mg/kg, Oral Experimental result, Key study LOAEL Rat, Female, Male, Oral, 13 Weeks, 20 mg/kg, Oral Experimental result, Supporting study

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. Skin sensitization:, in vivo, Mouse, Non sensitising

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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

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:	

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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 microorganisms

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

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:

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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

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

Environmental Hazards

Environmentally Hazardous: No

Marine Pollutant: No

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

IATA

Not Regulated.

IMDG

Not Regulated.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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.

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

SODIUM PHOSPHATE, DIBASIC

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)

Chemical Identity

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

SODIUM PHOSPHATE, DIBASIC

US State Regulations

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

Version #:	1.1
Generation date:	09/04/2023
Date of first report version:	04/06/2012

Abbreviations and acronyms:

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

ACGIH:	US. ACGIH Threshold Limit Values, as amended
NIOSH/GUIDE:	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
TN OEL:	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
TX ESL:	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
US CA OEL:	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
Z1A:	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
ACGIH / Ceiling:	Ceiling Limit Value:
NIOSH/GUIDE / Ceil_Time:	Ceiling Limit Value and Time Period (if specified):
TN OEL / Ceiling:	Ceiling Limit Value:
TX ESL / ST ESL:	Short-Term ESL:
TX ESL / AN ESL:	Annual ESL:
US CA OEL / Ceiling:	Ceiling Limit Value:
Z1A / Ceiling:	Ceiling Limit Value:

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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

Further Information: No data available.

Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

Disclaimer

Disclaimer:
The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use 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 cannot guarantee that these are the only hazards that exist. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.