Version: 1.4 Last revised date: 24.05.2024



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# **SAFETY DATA SHEET**

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

# 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)
332771	BD® CD3 (SK7) PerCP-Cy5.5	No data available
332772	BD® CD4 (SK3) PerCP-Cy5.5	No data available
332780	BD® CD19 (SJ25C1) PerCP-Cy5.5	No data available
332781	BD® CD20 (L27) PerCP-Cy5.5	No data available
333146	BD® CD33 (P67.6) PerCP-Cy5.5	No data available
333148	BD® CD41a (HIP8) PerCP-Cy5.5	No data available
333153	BD® CD79a (HM47) PerCP-Cy5.5	No data available
333950	BD® CD117 (104D2) PerCP-Cy5.5	No data available
338440	BD® CD16 (3G8) PerCP-Cy5.5	No data available
339216	BD® Anti-HLA-DR (L243) PerCP-Cy5.5	No data available
341050	BD® CD8 (SK1) PerCP-Cy5.5	No data available
341107	BD® CD138 (MI15) PerCP-Cy5.5	No data available
341109	BD® CD5 (L17F12) PerCP-Cy5.5	No data available
345766	BD® CD3 (SK7) PerCP-Cy5.5	No data available
345770	BD® CD4 (SK3) PerCP	No data available
345774	BD® CD8 (SK1) PerCP	No data available
345778	BD® CD19 (4G7) PerCP	No data available
345786	BD® CD14 (MφP9) PerCP	No data available
345790	BD® CD19 (SJ25C1) PerCP	No data available

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345794	BD® CD20 (L27) PerCP	No data available
345803	BD® CD34 (8G12) PerCP	No data available
347222	BD® CD34 (8G12) PerCP-Cy5.5	No data available
347402	BD® Anti-HLA-DR (L243) PerCP	No data available
347408	BD® CD61 (RUU-PL7F12) PerCP	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

Becton, Dickinson and Company, BD Biosciences

155 North McCarthy Boulevard 95035 Milpitas, California

USA

Contact Person: Business Unit Product Stewardship Team

E-mail: BDB-PS-SDS-LABEL@bd.com

**Supplier** 

Becton Dickinson 1030 Eskdale Road, Winnersh Triangle RG41 5TS Wokingham, Berkshire United Kingdom

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 not been classified as hazardous according to the legislation in force.

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Not classified

### 2.2 Label Elements Not applicable

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#### 2.3 Other hazards

No data available.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

General information: No hazardous ingredients.

### **SECTION 4: First aid measures**

4.1 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.

**Personal Protection for First-aid** 

**Responders:** 

No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Hazards: No data available.

4.3 Indication of immediate medical attention and special treatment needed

**Treatment:** No data available.

# **SECTION 5: Firefighting measures**

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General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames, heat

and smoking. Ventilate. Use water spray to keep fire-

exposed containers cool.

5.1 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.

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:

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.

**6.1.1 For non-emergency personnel:**No data available.

**6.1.2 For emergency responders:** No data available.

**6.2 Environmental Precautions:** Avoid release to the environment.

6.3 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.

**6.4 Reference to other sections:** No data available.

### **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

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**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.

### 7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions: Store in a cool, dry place. Keep container tightly closed.

Safe packaging materials: No data available.

7.3 Specific end use(s): Reserved for industrial and professional use. Read label

before use

### SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

### **Occupational Exposure Limits**

None of the components have assigned exposure limits.

#### **Biological Limit Values**

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

#### **DNEL-Values**

Remarks: DNEL-Values

Critical component	Туре	Route of Exposure	Health Warnings	Remarks
Sodium Chloride (NaCl)	General population	Inhalation	Systemic, long-term; 443.28 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 2068.62 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 2068.62 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, short-term; 443.28 mg/m3	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 126.65 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 295.52 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, short-term; 295.52 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, short-term; 126.65 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, short-term; 126.65 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 126.65 mg/kg	Repeated dose toxicity
Phosphoric acid, sodium salt (1:2)	Workers	Eyes	Local effect;	No hazard identified

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	Workers	Inhalation	Systemic, long-term; 4.07 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 3.04 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 6.63 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 15.47 mg/m3	Repeated dose toxicity
Sodium azide (Na(N3))	General population	Eyes	Local effect;	No hazard identified
` ` ` '/	Workers	Eyes	Local effect;	No hazard identified
	General population	Inhalation	Systemic, long-term; 87 µg/m3	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0.05 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 0.14 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 0.493 mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.05 mg/kg	Repeated dose toxicity
Phosphoric acid, potassium salt (1:1)	Workers	Eyes	Local effect;	No hazard identified
	General population	Eyes	Local effect;	No hazard identified
	Workers	Inhalation	Systemic, long-term; 14.82 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 6.35 mg/m3	Repeated dose toxicity
Potassium chloride (KCI)	Workers	Inhalation	Systemic, long-term; 1064 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 273 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, short-term; 1365 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 5320 mg/m3	Repeated dose toxicity
	General population	Oral	Systemic, short-term; 455 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 182 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 91 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 303 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, short-term; 910 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, short-term; 910 mg/kg	Repeated dose toxicity

## **PNEC-Values**

Remarks: PNFC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks	
Sodium Chloride (NaCl)	Aquatic (freshwater)	5 mg/l		
·	Sewage treatment plant	500 mg/l		
	Soil	4.86 mg/kg	Soil	
Phosphoric acid, sodium salt (1:2)	Aquatic (marine water)	0.005 mg/l		
	Sewage treatment plant	50 mg/l		
	Aquatic (freshwater)	0.05 mg/l		
Sodium azide (Na(N3))	Aquatic (marine water)	0.015 μg/l		

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Sewage treatment plant 30 μg/l
Sediment (freshwater) 0.0167 mg/kg
Sediment (marine water) 0.00072 mg/kg
Aquatic (freshwater) 0.35 μg/l
Potassium chloride (KCl) Aquatic (freshwater) 0.1 mg/l
Sewage treatment plant 10 mg/l
Aquatic (marine water) 0.1 mg/l

#### 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

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

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.

**Environmental Controls:** No data available.

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid Form: liquid

Color: Colorless to brown

Odor: Odorless

Odor Threshold:

Freezing point:

Boiling Point:

Flammability:

No data available.

No data available.

No data available.

Upper/lower limit on flammability or explosive limits

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Explosive limit - upper:

Explosive limit - lower:

No data available.

**pH:** 7.20 - 7.60

**Viscosity** 

Dynamic viscosity:

No data available.

Kinematic viscosity:

No data available.

Solubility(ies)

Solubility in Water: Soluble

Partition coefficient (n-octanol/water):

Vapor pressure:

Relative density:

No data available.

## 9.2 Other information

No data available

# **SECTION 10: Stability and reactivity**

**10.1** Reactivity: Material is stable under normal conditions.

**10.2 Chemical Stability:** Material is stable under normal conditions.

10.3 Possibility of hazardous reactions: Stable

**10.4 Conditions to avoid:** Avoid exposure to high temperatures or direct sunlight.

**10.5** Incompatible Materials: Metals. Water reactive material.

**10.6** Hazardous Decomposition Stable; however, may decompose if heated.

**Products:** 

#### SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Inhalation:** No data available.

**Skin Contact:** No data available.

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**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.

**Dermal** 

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

Inhalation

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

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** No data available.

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

Specific Target Organ Toxicity - Single Exposure Product: No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Aspiration Hazard** 

**Product:** No data available.

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### 11.2 Information on other hazards

Other information

**Product:** No data available.

# **SECTION 12: Ecological information**

12.1 Toxicity:

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Toxicity to microorganisms

**Product:** No data available.

Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

12.2 Persistence and Degradability

Biodegradation

**Product:** No data available.

12.3 Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

12.4 Mobility in soil:

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**Product:** No data available.

12.5 Results of PBT and vPvB assessment:

**Product:** No data available.

12.6 Other adverse effects:

Other hazards

**Product:** No data available.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

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

authority requirements.

No data available. **Disposal methods:** 

**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.

# **SECTION 14: Transport information**

ADR

14.1 UN number or ID number: Not Regulated. 14.2 UN Proper Shipping Name: Not Regulated.

14.3 Transport Hazard Class(es)

Class: Not Regulated. Not Regulated. Label(s): Hazard No. (ADR): Not Regulated. Tunnel restriction code: Not Regulated.

14.4 Packing Group: Not Regulated. Limited quantity Not Regulated. **Excepted quantity** Not Regulated. 14.5 Environmental Hazards Not Regulated. Not Regulated.

14.6 Special precautions for user:

RID

Not Regulated. 14.1 UN number or ID number: 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. Limited quantity Not Regulated.

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Excepted quantity

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14.5 Environmental Hazards Not Regulated. 14.6 Special precautions for user: Not Regulated. **IMDG** 14.1 UN number or ID 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. Limited quantity Not Regulated. Excepted quantity Not Regulated. 14.5 Environmental Hazards Not Regulated. 14.6 Special precautions for user: Not Regulated. 14.1 UN number or ID 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. Passenger and cargo aircraft: Not Regulated. Limited quantity Not Regulated.

14.7 Maritime transport in bulk according to IMO instruments

### SECTION 15: Regulatory information

Not applicable for product as supplied.

Excepted quantity

14.5 Environmental Hazards

14.6 Special precautions for user:

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Not Regulated.

Not Regulated.

Not Regulated.

Not Regulated.

#### **EU Regulations**

- **EU. REACH Annex XIV, Substances Subject to Authorization:** None present or none present in regulated quantities.
- EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): None present or none present in regulated quantities.
- EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: None present or none present in regulated quantities.

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Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: None present or none present in regulated quantities.

UK EXP1: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

UK EXP2: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

UK EXP3: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

UK BAN: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: None present or none present in regulated quantities.

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

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### **Rotterdam convention**

Not applicable

### **Kyoto protocol**

Not applicable

#### **SECTION 16: Other information**

Date of first report version: 06.04.2012

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#### Abbreviations and acronyms:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA -

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European Industrial Gases Association; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice: 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 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI -Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Key literature references and** European Chemicals Agency (ECHA): Information on Chemicals. **sources for data:** 

Wording of the statements in section 2 and 3

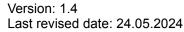
: none

**Training information:** No data available.

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