

Last revised date: 18.05.2022

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

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)
342003	BD FACSFlow™ Sheath Fluid	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.

Telephone: 32 2 400 98 95

Fax: 32 2 401 70 94

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Becton Dickinson France S.A.S. Belgian Branch

Erembodegem-Dorp 86

9320 Erembodegem

Belgium

Contact Person: BD Biosciences - Centralized European Office

Regulatory Compliance Department

E-mail: help.biosciences@europe.bd.com

1.4 Emergency telephone number: 32 2 400 98 95

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

2.3 Other hazards



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: No hazardous ingredients.

SECTION 4: First aid measures

4.1 Description of necessary 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:

Firefighters must use standard protective equipment including flame

retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

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

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:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Not applicable

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

No data available.

sections:

SECTION 7: Handling and storage:

7.1 Precautions for safe handling



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Technical measures (e.g. Local and general ventilation):

No special requirements under ordinary conditions of use and with

adequate ventilation.

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.

Reserved for industrial and professional use. Read label before use.

7.3 Specific end use(s):

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational 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	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



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	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
Disodium hydrogenorthophosph ate	Workers	Eyes	Local effect;	No hazard identified
	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
	<u>I</u>			1
2-phenoxyethanol	General population	Inhalation	Local, long-term; 2.41 mg/m3	Repeated dose toxicity
	General population	Eyes	Local effect;	Low hazard (no threshold derived)
	Workers	Eyes	Local effect;	Low hazard (no threshold derived)
	Workers	Inhalation	Local, long-term; 5.7 mg/m3	
	Workers	Inhalation	Systemic, long-term; 5.7 mg/m3	
	Workers	Dermal	Systemic, long-term; 20.83 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, short-term; 9.23 mg/kg	Repeated dose toxicity



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	General population	Dermal	Systemic, long-term;	Repeated dose toxicity
			10.42 mg/kg	
	General population	Oral	Systemic, long-term; 9.23 mg/kg	Repeated dose toxicity
	l			
sodium fluoride	Workers	Dermal	Systemic, long-term; 0.36 mg/kg	
	Workers	Dermal	Systemic, short-term; 0.36 mg/kg	
	Workers	Inhalation	Systemic, short-term; 2.5 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Local, long-term; 2.5 mg/m3	Repeated dose toxicity
				I
Potassium chloride	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



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Potassium dihydrogenorthophosp hate	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

PNEC-Values

Remarks: PNEC-Values

Environmental compartment	PNEC-Values	Remarks
Soil	4.86 mg/kg	
Aquatic (freshwater)	5 mg/l	
Sewage treatment plant	500 mg/l	
Sewage treatment plant	50 mg/l	
Aquatic (freshwater)	0.05 mg/l	
Aquatic (marine water)	0.005 mg/l	
<u> </u>	<u> </u>	
Soil	1.31 mg/kg	
Aquatic (marine water)	0.094 mg/l	
Sediment (freshwater)	7.237 mg/kg	
	compartment Soil Aquatic (freshwater) Sewage treatment plant Sewage treatment plant Aquatic (freshwater) Aquatic (marine water) Soil Aquatic (marine water)	Soil 4.86 mg/kg



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	Sediment (marine water)	0.724 mg/kg	
	Aquatic (freshwater)	0.943 mg/l	
	Sewage treatment plant	36 mg/l	
sodium fluoride	Sewage treatment plant	51 mg/l	
	Aquatic (freshwater)	0.9 mg/l	
	Soil	11 mg/kg	
Potassium chloride	Aquatic (marine water)	0.1 mg/l	
	Sewage treatment plant	10 mg/l	
	Aquatic (freshwater)	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.



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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
Odor: Odorless

Odor Threshold:

Freezing point:

Boiling Point:

Flammability:

Upper/lower limit on flammability or explosive limits

No data available.

No data available.

Explosive limit - upper:

Explosive limit - lower:

No data available.

No data available.

No data available.

Self Ignition Temperature:

No data available.

No data available.

Temperature:

pH: 7.34 - 7.50

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.

Dissolution Rate: No data available.

Partition coefficient (n-

octanol/water):

No data available.

Dispersion Stability: No data available.

Vapor pressure:
Relative density:
No data available.
No data available.
No data available.

Bulk density:
No data available.



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Relative vapor density: No data available.

9.2 Other information

VOC Content: EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II,

L 334/17: 1.92 g/l ~0.19 % (calculated)

EC Directive 2004/42: 1.92 g/l ~0.19 % (calculated)

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

Products:

Stable; however, may decompose if heated.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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.

Dermal

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

Inhalation

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



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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.

11.2 Information on health hazards

Other hazards

Product: No data available.

SECTION 12: Ecological information

12.1 Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.



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Toxicity to Aquatic Plants

Product: No data available.

Toxicity to microorganisms

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Toxicity to microorganisms

Product: No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

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:

Product No data available.

12.5 Results of PBT and vPvB assessment:

Product No data available.

12.6 Other adverse effects:



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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.

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.

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

ADN

14.4

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.
Hazard No. (ADR): Not regulated.
Tunnel restriction code: Not regulated.
14.4 Packing Group: Not regulated.
Limited quantity Not regulated.
Excepted quantity Not regulated.

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Not regulated.

Not regulated.



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UN number or ID number:

Special precautions for user:

14.5 Special precautions for user. Not requiate	r user: Not regulated	precautions for user:	14.5 Special
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R	D		
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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.
	Excepted quantity	Not regulated.
14.5	Environmental Hazards	Not regulated.

IMDG

14.6

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

14.3 Transport Hazard Class(es)

Not regulated. Class: Label(s): Not regulated. EmS No.: Not regulated. 14.4 Packing Group: Not regulated. Limited quantity Not regulated. Excepted quantity Not regulated. **Environmental Hazards** 14.5 Not regulated. 14.6 Special precautions for user: Not regulated.

IATA

14.6

AIA		
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.
	Excepted quantity	Not regulated.
14.5	Environmental Hazards	Not regulated.

SECTION 15: Regulatory information

Special precautions for user:

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

Not regulated.

EU Regulations

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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EU. REACH Annex XIV, Substances Subject to Authorization: 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 (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended: 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. 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

Abbreviations and acronyms:

No data available.



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Key literature references and sources for data:

European Chemicals Agency (ECHA): Information on Chemicals.

Wording of the statements in section 2 and 3

: none

Training information: No data available.

SDS No.: UN0000000000342003-4190-1-01

Disclaimer: Disclaimer:

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