



Becton, Dickinson and Company
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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)
940191	BD™ AbSeq Oligo Mouse Anti-Mouse TIGIT	No data available
940108	BD™ AbSeq Oligo Rat Anti-Mouse CD4	No data available
940141	BD™ AbSeq Oligo Hamster Anti-Mouse CD80 (B7-1)	No data available
940144	BD™ AbSeq Oligo Rat Anti-Mouse CD24	No data available
940145	BD™ AbSeq Oligo Rat Anti-Mouse CD43	No data available
940188	BD™ AbSeq Oligo Rat Anti-Mouse CD357 (GITR)	No data available
940207	BD™ AbSeq Oligo Mouse Anti-Mouse CD366 (TIM- 3)	No data available
940218	BD™ AbSeq Oligo Mouse Anti-Human CD146	No data available
940320	BD™ AbSeq Oligo Rat Anti-Mouse CD45	No data available
940321	BD™ AbSeq Oligo	No data available



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	Hamster Anti-Mouse CD11c	
940345	BD™ AbSeq Oligo Rat Anti-Mouse CD8a	No data available
940487	BD™ AbSeq Oligo Rat Anti-Mouse CD2	No data available
940505	BD™ AbSeq Oligo Mouse Anti-Mouse CD22.2	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 research use only.

Uses advised against: Not for use in diagnostic or therapeutic procedures.

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

Telephone: 32 2 400 98 95

Fax: 32 2 401 70 94

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 according to Regulation (EC) No 1272/2008 as amended.

Not classified



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2.2 Label Elements

Not applicable

2.3 Other hazards

Endocrine Disruption-Toxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine Disruption-Ecotoxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: No hazardous ingredients.

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.

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.



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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: No data available.

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.

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.



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- 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:** 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.
- Storage Temperature:** 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

Chemical name	Type	Exposure Limit Values	Source
Glycerol	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (2007)

Biological Limit Values

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

DNEL-Values

Remarks: DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
Glycerol	Workers	Inhalation	Local, short-term; 56 mg/m3	respiratory tract irritation



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Sodium chloride	Workers	Dermal	Systemic, long-term; 295.52 mg/kg body weight/day	Repeated dose toxicity
	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

Trometamol	Workers	Dermal	Systemic, long-term; 166.7 mg/kg body weight/day	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 117.5 mg/m3	Repeated dose toxicity

Dimethyl sulfoxide	Workers	Dermal	Systemic, long-term; 200 mg/kg body weight/day	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 484 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Local, short-term; 265 mg/m3	respiratory tract irritation
	General population	Inhalation	Local, short-term; 47 mg/m3	respiratory tract irritation

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
	General population	Dermal	Systemic, short-term; 910 mg/kg body weight/day	Repeated dose toxicity

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	Workers	Dermal	Systemic, long-term; 303 mg/kg body weight/day	Repeated dose toxicity
	General population	Oral	Systemic, short-term; 455 mg/kg body weight/day	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 182 mg/kg body weight/day	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 91 mg/kg body weight/day	Repeated dose toxicity
	Workers	Dermal	Systemic, short-term; 910 mg/kg body weight/day	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 5320 mg/m3	Repeated dose toxicity
sodium hydroxide; caustic soda	General population	Inhalation	Systemic, short-term; 1 mg/m3	respiratory tract irritation
	Workers	Inhalation	Systemic, short-term; 1 mg/m3	respiratory tract irritation

PNEC-Values

Remarks: PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
Glycerol	Sediment (freshwater)	3.3 mg/kg	
	Sewage treatment plant	1000 mg/l	
	Soil	0.141 mg/kg	
	Sediment (marine water)	0.33 mg/kg	
	Aquatic (freshwater)	0.885 mg/l	



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	Aquatic (marine water)	0.088 mg/l	
Sodium chloride	Soil	4.86 mg/kg	
	Aquatic (freshwater)	5 mg/l	
	Sewage treatment plant	500 mg/l	
Trometamol	Sewage treatment plant	300 mg/l	
Dimethyl sulfoxide	Soil	3.02 mg/kg	
	Aquatic (marine water)	1.7 mg/l	
	Sewage treatment plant	11 mg/l	
	Aquatic (freshwater)	17 mg/l	
	Predator	0.7 g/kg	Oral
	Sediment (freshwater)	13.4 mg/kg	
Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs.	Sediment (marine water)	1000 mg/kg	
	Aquatic (marine water)	0.02 mg/l	



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	Aquatic (freshwater)	0.2 mg/l	
	Sediment (freshwater)	1.141 mg/kg	

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

Odor:

Odorless

Odor Threshold:

No data available.

Freezing point:

Not applicable

Boiling Point:

No data available.

Flammability:

Not applicable



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Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	Not applicable
Explosive limit - lower:	Not applicable
Flash Point:	Not applicable
Self Ignition Temperature:	Not determined.
Decomposition Temperature:	Not applicable
pH:	7.4
Viscosity	
Dynamic viscosity:	Not applicable
Kinematic viscosity:	No data available.
Flow Time:	Not applicable
Solubility(ies)	
Solubility in Water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable
Vapor pressure:	Not applicable
Relative density:	Not applicable
Density:	Not applicable
Bulk density:	Not applicable
Relative vapor density:	Not applicable
Particle characteristics	
Particle Size Distribution:	Not applicable
Specific surface area:	Not applicable
Surface charge/Zeta potential:	Not applicable
Assessment:	Not applicable
Shape:	Not applicable
Crystallinity:	Not applicable
Surface treatment:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity:	Material is stable under normal conditions.
10.2 Chemical Stability:	Material is stable under normal conditions.



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- | | |
|---|---|
| 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

Information on likely routes of exposure

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

11.1 Information on toxicological effects

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. |



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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.

Endocrine Disruption

Product: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;

SECTION 12: Ecological information

12.1 Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

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Aquatic Invertebrates

Product: No data available.

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:



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Product No data available.

12.6 Endocrine Disruption:

Product: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 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.

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: No data available.

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.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.



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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.
14.6 Special precautions for user:	Not regulated.

IMDG



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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

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

EU Regulations

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances:
none

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Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances:
none

EU. REACH Annex XIV, Substances Subject to Authorization: none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended: none

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

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

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): 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

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

Not applicable

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
Sodium azide (Na(N ₃))	26628-22-8	0 - <0.1%
Sodium hydroxide (Na(OH))	1310-73-2	0 - <0.1%



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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.

Key literature references and sources for data:

European Chemicals Agency (ECHA): Information on Chemicals.

Wording of the H-statements in section 2 and 3: none

Training information:

No data available.

SDS No.:

UN000000000000940191-4012-1-01



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