



Becton, Dickinson and Company
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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)
557690	BD Pharmingen™ Alexa Fluor™ 647 Rat IgG2a, κ Isotype Control	No data available
560230	BD Pharmingen™ Alexa Fluor™ 647 Rat anti-Mouse CD34	No data available
558156	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD205	No data available
561611	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Rat CD8a	No data available
561612	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD106	No data available
560766	BD Pharmingen™ Alexa Fluor™ 647 Rat anti-Mouse CD197 (CCR7)	No data available
560233	BD Pharmingen™ Alexa Fluor™ 647 Rat anti-Mouse CD34	No data available
557681	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD4	No data available
557914	BD Pharmingen™ Alexa Fluor™ 647 Mouse anti-Human CD191	No data available
558042	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Human CD294	No data available
562112	BD Pharmingen™ Alexa Fluor™ 647 Hamster IgG2, λ1 Isotype Control	No data available
562113	BD Pharmingen™ Alexa Fluor™ 647 Hamster Anti-Rat/Mouse CD49a	No data available
557731	BD Pharmingen™ Alexa Fluor™ 647 Rat IgG1, κ Isotype Control	No data available
562156	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Rat IL-10	No data available
561630	BD Pharmingen™ Alexa Fluor™ 647 Mouse anti-Mouse IL-17F	No data available
562242	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD144	No data available
561753	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD196	No data available



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557863	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD194	No data available
557684	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD19	No data available
557683	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD45R	No data available
558208	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD193	No data available
557975	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD199 (CCR9)	No data available
561745	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD193	No data available
561797	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Human CD294	No data available
558453	BD Pharmingen™ Alexa Fluor™ 647 Rat anti-Mouse CD267	No data available
562230	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD146	No data available
557976	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD196	No data available
557869	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD3 Molecular Complex	No data available
562524	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Mouse DO-11.10 Clonotypic TCR	No data available
561475	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Pig CD8a	No data available
561496	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Pig CD29	No data available
561476	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Pig CD3ε	No data available
557682	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD8a	No data available
557691	BD Pharmingen™ Alexa Fluor™ 647 Rat IgG2b, κ Isotype Control	No data available
561472	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Pig CD4a	No data available
561999	BD Pharmingen™ Alexa Fluor™ 647 Mouse anti-Human Granzyme B	No data available
562367	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse I-A/I-E	No data available
562763	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD45RA	No data available
562769	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD38	No data available
562826	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD23	No data available



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563336	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Mouse Siglec-G	No data available
563504	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD71	No data available
563643	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse Blimp-1	No data available
563951	BD Pharmingen™ Alexa Fluor™ 647 Armenian Hamster Anti-Helios	No data available
564073	BD Pharmingen™ Alexa Fluor™ 647 Hamster IgG2, κ Isotype Control	No data available
565002	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Blimp-1	No data available
565105	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD222	No data available
565378	BD Pharmingen™ Alexa Fluor™ 647 Mouse IgG2b, κ Isotype Control	No data available
565587	BD Pharmingen™ Alexa Fluor™ 647 Armenian Hamster Anti-Mouse CD11c	No data available
565578	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Mouse CD199 (CCR9)	No data available
565785	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Human AID	No data available
566011	BD Pharmingen™ Alexa Fluor™ 647 Mouse IgG1, κ Isotype Control	No data available
566351	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Human IL-31RA	No data available
566580	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human GLUT1	No data available
566599	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD177	No data available
566645	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CRTAM (CD355)	No data available
566657	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human SUSD2	No data available
566693	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-TCF-7/TCF-1	No data available
566731	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD11c	No data available
566867	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Rat RP-1 Antigen	No data available
567044	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human ErbB3 (HER-3)	No data available
567661	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD8b	No data available
567804	BD Pharmingen™ Alexa Fluor™ 647 Hamster Anti-Mouse FcεR1α	No data available



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567805	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CX3CR1	No data available
568194	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD98	No data available
568281	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Cyclin A	No data available
568299	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD21/CD35	No data available
557739	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse IL-4	No data available
560184	BD Pharmingen™ Alexa Fluor™ 647 Rat anti-Mouse IL-17A	No data available
560224	BD Pharmingen™ Alexa Fluor™ 647 Rat anti-Mouse IL-17A	No data available
561480	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Pig IFN-γ	No data available
562680	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse Siglec-F	No data available
562806	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD162	No data available
562832	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Mouse H-2K[b]	No data available
563490	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-PLZF	No data available
563612	BD Pharmingen™ Alexa Fluor™ 647 Hamster IgG1, κ Isotype Control	No data available
563713	BD Pharmingen™ Alexa Fluor™ 647 Rat IgG1, λ Isotype Control	No data available
564084	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD124	No data available
564794	BD Pharmingen™ Alexa Fluor™ 647 Rat anti-Mouse CD371 (Clec12A)	No data available
564729	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Nkx2.2	No data available
565357	BD Pharmingen™ Alexa Fluor™ 647 Mouse IgG2a, κ Isotype Control	No data available
565365	BD Pharmingen™ Alexa Fluor™ 647 Mouse IgG2a, κ Isotype Control	No data available
565250	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD206	No data available
565789	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-AhR	No data available
565831	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-C-Peptide	No data available
565882	BD Pharmingen™ Alexa Fluor™ 647 Armenian Hamster Anti-ICOS (CD278)	No data available



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565911	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD11c	No data available
566426	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD6	No data available
566579	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CXCL1 (GRO α)	No data available
566585	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CLEC5A (MDL-1)	No data available
566716	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human Tie2 (CD202b)	No data available
566717	BD Pharmingen™ Alexa Fluor™ 647 Hamster Anti-Mouse CD103	No data available
566715	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD279 (PD-1)	No data available
566735	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Nur77	No data available
567160	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human IL-22	No data available
567161	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human IL-22	No data available
567806	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse Siglec-H	No data available
567904	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Galectin-3	No data available
568356	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-TOX	No data available
568300	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD21/CD35	No data available
568306	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD274 (PD-L1)	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 and Company, BD Biosciences
155 North McCarthy Boulevard
95035 Milpitas, California
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

Supplier

Becton Dickinson

Telephone: 01189216499



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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

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.



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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.
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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:	Water spray, foam, dry powder or carbon dioxide. Use fire-extinguishing media appropriate for surrounding materials.
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Unsuitable extinguishing media:	Avoid water in straight hose stream; will scatter and spread fire.
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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.
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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.
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SECTION 6: Accidental release measures



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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

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).



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DNEL-Values

Remarks: DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
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
Sodium Chloride (NaCl)	General population	Dermal	Systemic, long-term; 0.05 mg/kg	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
	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	

PNEC-Values

Remarks: PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
Sodium azide (Na(N3))	Aquatic (marine water)	0.015 µg/l	
	Sewage treatment plant	30 µg/l	
	Sediment (freshwater)	0.0167 mg/kg	
	Sediment (marine water)	0.00072 mg/kg	
Sodium Chloride (NaCl)	Aquatic (freshwater)	0.35 µg/l	
	Aquatic (freshwater)	5 mg/l	
	Sewage treatment plant	500 mg/l	
	Soil	4.86 mg/kg	Soil

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).



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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 blue
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:	The physical-chemical properties of this material have not been fully investigated.
Auto-ignition temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	No data available.
Viscosity	
Dynamic viscosity:	Not determined.
Kinematic viscosity:	No data available.



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Solubility(ies)

Solubility in Water:	Soluble
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	No data available.
Relative vapor 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 Products:	Stable; however, may decompose if heated.

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.

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



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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.

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.



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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:

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



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13.1 Waste treatment methods

General information:	Dispose of waste and residues in accordance with local authority requirements.
Disposal methods:	No data available.
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.
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.

RID

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.
Limited quantity	Not Regulated.
Excepted quantity	Not Regulated.
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.



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14.6 Special precautions for user:	Not Regulated.
IATA	
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.
14.6 Special precautions for user:	Not Regulated.
14.7 Maritime transport in bulk according to IMO instruments	
Not applicable for product as supplied.	

SECTION 15: Regulatory information

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

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.

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.



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**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: 06.06.2024

Generation date: 06.06.2024

Version #: 1.0

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 - 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 -



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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 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.

Disclaimer:

Disclaimer:

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