



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)
565215	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human Aiolos	No data available
563576	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human Perforin	No data available
558615	BD Pharmingen™ Alexa Fluor™ 647 Mouse anti-Ki-67	No data available
564184	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human VHL	No data available
568340	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD47	No data available
568957	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human VSTM1 (SIRL-1)	No data available
566854	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD8	No data available
566708	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD161	No data available
566391	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Heme Oxygenase 1	No data available
565231	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human TerminalTransferase (TdT)	No data available
563600	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human Bcl-2	No data available
565305	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD107b	No data available
563599	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD123	No data available
564151	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD130	No data available
563682	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Human CD132	No data available
564732	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD148	No data available
564938	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD166	No data available



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565035	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD172a/b	No data available
565049	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD1c	No data available
565048	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD1c	No data available
564797	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD226	No data available
564278	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD275	No data available
566093	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD352 (NTB-A/SLAMF6)	No data available
565857	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD45RC	No data available
563578	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human Integrin α5 chain (CD49e)	No data available
564260	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD6	No data available
564338	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CRACC (CD319)	No data available
564806	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human HLA-DQ	No data available
563591	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human HLA-DR, DP, DQ	No data available
564411	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human HVEM (CD270)	No data available
563495	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human IFN-γ	No data available
564469	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human ILT5 (CD85a)	No data available
564375	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human KIR2DS4 (CD158i)	No data available
565716	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human LAG-3 (CD223)	No data available
565717	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human LAG-3 (CD223)	No data available
563496	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human MCP-1	No data available
563443	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human NCAM-1 (CD56)	No data available
563620	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human RORyt	No data available
566010	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human S100A8/A9 (MRP-8/14)	No data available
565295	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human Siglec-1 (CD169)	No data available



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564344	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human TLR5 (CD285)	No data available
564341	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human Tspan-27 (CD82)	No data available
564817	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD268 (BAFF Receptor)	No data available
563648	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human Cytokeratin14, 15, 16 and 19	No data available
564473	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse CD101 (Igsf2)	No data available
565500	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Mouse Zbtb7b (ThPok)	No data available
562111	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD68	No data available
567419	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human HLA-E	No data available
567325	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human KIR2DL1/S1/S3/S5 (CD158)	No data available
568202	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD163	No data available
568203	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD163	No data available
568270	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD59	No data available
568095	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD7	No data available
567340	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD80 (B7-1)	No data available
568582	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD98	No data available
568583	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD98	No data available
565326	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human LAIR-1 (CD305)	No data available
568096	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human PD-L2 (CD273)	No data available
568091	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human PD-L2 (CD273)	No data available
568360	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human SIT	No data available
568291	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human TCR Vβ13.1	No data available
568086	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human TCR Vβ13.2	No data available
568627	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human TCR Vβ5 Related	No data available



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568958	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human VSTM1 (SIRL-1)	No data available
567945	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human Active β 2 Integrin (CD18)	No data available
566996	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human Granzyme M	No data available
563619	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD146	No data available
564994	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human Endosialin (CD248)	No data available
562821	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-XBP-1S	No data available
561264	BD Pharmingen™ Alexa Fluor™ 647 Mouse anti-T-Bet	No data available
562758	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD162	No data available
562551	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD147	No data available
558220	BD Pharmingen™ Alexa Fluor™ 647 Mouse anti-human Clec4A (CD367)	No data available
560298	BD Pharmingen™ Alexa Fluor™ 647 Mouse anti-GFAP	No data available
561567	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD144	No data available
562043	BD Pharmingen™ Alexa Fluor™ 647 Mouse anti-Human IL-21	No data available
560871	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD309 (VEGFR-2)	No data available
560088	BD Pharmingen™ Alexa Fluor™ 647 Mouse anti-Human IFN- α [2b]	No data available
558406	BD Pharmingen™ Alexa Fluor™ 647 Mouse anti-Human CD192 (CCR2)	No data available
560078	BD Pharmingen™ Alexa Fluor™ 647 Mouse anti-GATA3	No data available
558684	BD Pharmingen™ Alexa Fluor™ 647 Mouse anti-Hsp60	No data available
561744	BD Pharmingen™ Alexa Fluor™ 647 Mouse anti-Human CD192 (CCR2)	No data available
561497	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human C3a Receptor	No data available
560209	BD Pharmingen™ Alexa Fluor™ 647 Mouse anti-BrdU	No data available
558606	BD Pharmingen™ Alexa Fluor™ 647 Mouse anti- β -Tubulin	No data available
557865	BD Pharmingen™ Alexa Fluor™ 647 Rat IgG1, κ Isotype Control	No data available



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557906	BD Pharmingen™ Alexa Fluor™ 647 Rat IgG2a, κ Isotype Control	No data available
561654	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD31	No data available
562473	BD Pharmingen™ Alexa Fluor™ 647 Rat Anti-Human CD49f	No data available
557857	BD Pharmingen™ Alexa Fluor™ 647 Rat IgG2a, κ Isotype Control	No data available
562625	BD Pharmingen™ Alexa Fluor™ 647 Rat anti-Mouse CD282	No data available
564374	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human CD258 (LIGHT)	No data available
564372	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human IL-10Rβ (CD210b)	No data available
565623	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human fMLP receptor	No data available
566315	BD Pharmingen™ Alexa Fluor™ 647 Mouse Anti-Human IREM-2 (CD300e)	No data available
557715	BD Pharmingen™ Alexa Fluor™ 647 Mouse IgG2a, κ Isotype Control	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
1030 Eskdale Road, Winnersh Triangle
RG41 5TS Wokingham, Berkshire
United Kingdom

Telephone: 01189216499

1.4 Emergency telephone number: CHEMTREC 1 800 424 9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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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.
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



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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.

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 firefighters: 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.



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- 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).

DNEL-Values

Remarks: DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
Sodium Chloride (NaCl)	General population	Inhalation	Systemic, long-term; 443.28 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 2068.62 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 2068.62 mg/m ³	Repeated dose toxicity
	General population	Inhalation	Systemic, short-term; 443.28 mg/m ³	Repeated dose toxicity

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	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
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

PNEC-Values

Remarks: PNEC-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
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	
	Aquatic (freshwater)	0.35 µg/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.



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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:	No data available.
Auto-ignition temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	7.10 - 7.30

Viscosity

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

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.



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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 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



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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.

Toxicity to microorganisms

Product: No data available.

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates



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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

13.1 Waste treatment methods

General information:

Dispose of waste and residues in accordance with local authority requirements.

Disposal methods:

No data available.



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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.
- 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.



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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.

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



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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: 07.06.2024

Generation date: 07.06.2024

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 - 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



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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:

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