

# 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)
222641	BD Difco™ Salmonella O Antiserum Poly A-I & Vi, 3 mL	No data available
228141	Vial Sal O Antiserum Factor 2 Group A	No data available
226591	Vial Sal O Antiserum Factor 4 Grp B 3MI	No data available
228151	Vial Sal O Antiserum Factors 4& 5 Grp B	No data available
226601	Vial Sal O Antiserum Factor 5 Grp B 3MI	No data available
228161	Vial Sal O Antiserum Factor 7 Grp C1	No data available
228171	Vial Sal O Antiserum Factor 8 Grp C2&C3	No data available
228181	Vial Sal O Antiserum Factor 9 Group D	No data available
222571	Vial Sal O Antis Factor 10 Grp E1 3MI	No data available
227791	Vial Sal O Antiserum Factor 12	No data available
226611	Vial Sal O Antiserum Factor 14 3MI	No data available
222581	Vial Sal O Antis Factor 15 Lyophilized	No data available
222591	Vial Sal O Antis Factor 19 Grp E4 3MI	No data available
226621	Vial Sal O Antiserum Factor 20 3MI	No data available
226631	Vial Sal O Antiserum Factor 22 Grp G1 3M	No data available
226641	Vial Sal O Antiserum Factor 23 Grp G2 3M	No data available
226661	Vial Sal O Antiserum Factor 25 3MI	No data available
226671	Vial Sal O Antiserum Factor 27 3MI	No data available
211778	Vial Sal O Antiserum Factor 34 Group E3	No data available
229471	Salmonella O Antiserum Group A Factors 1,2,12	No data available



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229481	Salmonella O Antiserum Group B Factors 1, 4	No data available
229731	Vial Sal O Antis Grp B Ftr 1/4/12/27 Lyo	No data available
229491	Salmonella O Antiserum Group C1 Factors 6,7	No data available
229501	Salmonella O Antiserum Group C2 Factors 6,8	No data available
230161	Vial Sal O Antiserum Grp C3 Ftr 8/20 Lyo	No data available
229511	Salmonella O Antiserum Group D1 Factor 1,9,12	No data available
230171	Salmonella O Antiserum Group D2 Factors 9 (46)	No data available
228191	Salmonella O Antiserum Group E Factors 1,3,10	No data available
229521	Vial Sal O Antis Group E1 Ftr 3/10 Lyo	No data available
229541	Vial Sal O Antis Group E2 Ftr 3/15 Lyo	No data available
230181	Vial Sal O Antis Grp E3 Factor 3/15/34	No data available
230191	Vial Sal O Antis Group E4 Ftr 1/3/19 Lyo	No data available
222601	Vial Sal O Antiserum Group F Lyophilized	No data available
230291	Vial Sal O Antis Group G Fact 1/13/22/23	No data available
222611	Vial Sal O Antis Group G1 Fact 1/13/22	No data available
230201	Vial Sal O Antis Group G2 Fact 1/13/23	No data available
222621	Vial Sal O Antiserum Group H Lyophilized	No data available
222631	Vial Sal O Antiserum Group I Lyophilized	No data available
211780	Vial Sal O Antiserum Group J Lyophilized	No data available
225181	Vial Sal O Antiserum Group K Lyophilized	No data available
225191	Vial Sal O Antiserum Group L Lyophilized	No data available
211781	Vial Sal O Antiserum Group M Lyophilized	No data available
211783	Vial Sal O Antiserum Group N Lyophilized	No data available
225221	Vial Sal O Antiserum Group O Lyophilized	No data available
225341	Vial Sal O Antiserum Poly A Lyophilized	No data available
225351	Vial Sal O Antiserum Poly B Lyophilized	No data available



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225361	Vial Sal O Antiserum Poly C Lyophilized	No data available
225371	Vial Sal O Antiserum Poly D Lyophilized	No data available
225381	Vial Sal O Antiserum Poly E Lyophilized	No data available
226451	Vial Sal O Antiserum Poly F Lyophilized	No data available
226461	Vial Sal O Antiserum Poly G Lyophilized	No data available
228271	Salmonella Vi Antiserum	No data available

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses:** Scientific and industrial laboratory use. For In Vitro Diagnostic Use.  
**Uses advised against:** None known.

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer

BD, Integrated Diagnostic Solutions  
7 Loveton Circle  
21152 Sparks, MD  
USA

**Telephone:** 1 844 823 5433  
**Fax:** not available

**Contact Person:** Business Unit Product Stewardship Team

**E-mail:** IDS\_SDS@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

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

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and UK SI 2020/1567**

Not classified

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**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**

<b>General information:</b>	Get medical attention if symptoms occur.
<b>Inhalation:</b>	Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.
<b>Skin Contact:</b>	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.
<b>Eye contact:</b>	Flush thoroughly with water. If irritation occurs, get medical assistance.
<b>Ingestion:</b>	Get medical attention if symptoms occur.
<b>Personal Protection for First-aid Responders:</b>	No data available.

**4.2 Most important symptoms and effects, both acute and delayed**

<b>Symptoms:</b>	No specific symptoms noted.
<b>Hazards:</b>	No data available.

**4.3 Indication of immediate medical attention and special treatment needed**

<b>Treatment:</b>	IF exposed or concerned: Get medical advice/attention.
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**SECTION 5: Firefighting measures**

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**General Fire Hazards:**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool.

**5.1 Extinguishing media**

**Suitable extinguishing media:**

Water spray, foam, dry powder or carbon dioxide. Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:**

Avoid water in straight hose stream; will scatter and spread fire.

**5.2 Special hazards arising from the substance or mixture:**

None known.

**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:**

No special precautionary health measures should be needed under anticipated conditions of use.

**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:**

No specific clean-up procedure noted.

**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

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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.

## 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 azide	General population	Eyes	Local effect	No hazard identified
	Workers	Eyes	Local effect	No hazard identified
	General population	Inhalation	Systemic, long-term 87 µg/m <sup>3</sup>	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/m <sup>3</sup>	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

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Sodium azide	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 (PPE)

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

**Hand Protection:** Material: Chemical resistant gloves

**Skin and Body Protection:** Wear a lab coat or similar protective clothing.

**Respiratory Protection:** Respiratory protection not required.

**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:** solid

**Form:** Solid

**Color:** According to product specification.

**Odor:** Characteristic

**Odor Threshold:** No data available.

**Melting Point:** No data available.

**Boiling Point:** No data available.

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<b>Flammability:</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Flash Point:</b>	Not applicable
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>pH:</b>	No data available.
<b>Viscosity</b>	
<b>Dynamic viscosity:</b>	Not determined.
<b>Kinematic viscosity:</b>	Not determined.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Completely Soluble
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Density:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Particle characteristics</b>	
<b>Particle Size:</b>	No data available.
<b>Particle Size Distribution:</b>	No data available.
<b>Dustiness:</b>	No data available.
<b>Specific surface area:</b>	No data available.
<b>Surface charge/Zeta potential:</b>	No data available.
<b>Shape:</b>	No data available.
<b>Crystallinity:</b>	No data available.
<b>Surface treatment:</b>	No data available.

**9.2 Other information**  
No data available

## **SECTION 10: Stability and reactivity**

- |             |                            |   |
|-------------|----------------------------|---|
| <b>10.1</b> | <b>Reactivity:</b>         | Material is stable under normal conditions. |
| <b>10.2</b> | <b>Chemical Stability:</b> | Material is stable under normal conditions. |

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<b>10.3</b>	<b>Possibility of hazardous reactions:</b>	Not known.
<b>10.4</b>	<b>Conditions to avoid:</b>	Avoid exposure to high temperatures or direct sunlight.
<b>10.5</b>	<b>Incompatible Materials:</b>	Strong oxidizers.
<b>10.6</b>	<b>Hazardous Decomposition Products:</b>	No data available.

## **SECTION 11: Toxicological information**

**General information:** No information about adverse effects due to exposure.

### **11.1 Information on toxicological effects**

<b>Inhalation:</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin Contact:</b>	Negligible irritation to skin at ambient temperatures.
<b>Eye contact:</b>	Do not get in eyes.
<b>Ingestion:</b>	In the event of inhalation (ingestion), seek medical attention immediately

### **Symptoms related to the physical, chemical and toxicological characteristics**

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

### **Acute toxicity (list all possible routes of exposure)**

<b>Oral Product:</b>	ATEmix, 13,500 mg/kg
<b>Dermal Product:</b>	Not classified for acute toxicity based on available data.
<b>Inhalation Product:</b>	Not classified for acute toxicity based on available data.
<b>Repeated dose toxicity Product:</b>	No data available.

### **Skin Corrosion/Irritation**



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**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**

**General information:** This material has not been tested for environmental effects.

**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.

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#### **Aquatic Invertebrates**

**Product:** The product contains a substance which is toxic to aquatic organisms.

#### **Chronic hazards to the aquatic environment:**

##### **Fish**

**Product:** No data available.

##### **Aquatic Invertebrates**

**Product:** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### **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:** The dangerous properties of the product cannot be evaluated from the available data. Avoid release to the environment.

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

#### **General information:**

Dispose of waste and residues in accordance with local authority requirements. The solid and liquid waste should be handled according to their nature and degree of hazardousness.



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<b>Disposal methods:</b>	No data available.
<b>Contaminated Packaging:</b>	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.

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#### **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:**

**UK. REACH, Annex XIV, Substances Subject to Authorization (Authorization List), as amended:** None present or none present in regulated quantities.

**UK. UK REACH Candidate List of substances of very high concern (SVHCs) for Authorisation:** None present or none present in regulated quantities.

**UK. POPs List. SI Persistent Organic Pollutants Regulations 3106/2007, amended by UK POPs (Amendment) (EU Exit) Regulations 2020 (No. 1358), 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.

**UK REACH List of restrictions (Annex 17):**

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Chemical name	CAS-No.	Number on list
Sodium azide	26628-22-8	3

**Control of Major Accident Hazards Regulations 2015 (COMAH):** None present or none present in regulated quantities.

### International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### Rotterdam convention

Not applicable

#### Kyoto protocol

Not applicable

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

## SECTION 16: Other information

**Date of first report version:** 18.04.2014  
**Revision Date:** 19.02.2026  
**Version #:** 2.5  
**Revision Information:** No data available. .

### 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

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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; TECl - 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:**

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