

# **SAFETY DATA SHEET Pertussis Toxin (islet-activating protein)**

Page: 1 of 6

Revision: 03/15/2017 Supersedes Revision: 05/25/2016

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

**1.1 Product Code:** 19546

**Product Name:** Pertussis Toxin (islet-activating protein)

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

**Relevant identified uses:** For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Cayman Chemical Company

1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

CHEMTREC Outside USA and Canada: +1 (703)527-3887

### Section 2. Hazards Identification

### 2.1 Classification of the Substance or Mixture:

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2

Specific Target Organ Toxicity (single exposure), Category 3

#### 2.2 Label Elements:



GHS Signal Word: Warning

### **GHS Hazard Phrases:**

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

#### **GHS Precaution Phrases:**

P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

#### **GHS Response Phrases:**

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P332+313: If skin irritation occurs, get medical advice/attention.

P337+313: If eye irritation persists, get medical advice/attention.

P362+364: Take off contaminated clothing and wash it before reuse.

### **GHS Storage and Disposal Phrases:**

Please refer to Section 7 for Storage and Section 13 for Disposal information.

Page: 2 of 6



# **SAFETY DATA SHEET**

**Pertussis Toxin (islet-activating protein)** 

Revision: 03/15/2017 Supersedes Revision: 05/25/2016

Adverse Human Health Causes serious eye irritation.

> Causes skin irritation. **Effects and Symptoms:**

> > Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

### Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
70323-44-3	Pertussis toxin Histamine-sensitizing factor; IAP;	100.0 %	NA	Skin Corr. 2: H315
XW5883750	Islet activating protein; Toxins, pertussis;		NA	Eye Damage 2: H319
	Lymphocytosis-promoting factor;			STOT (SE) 3: H335 H336

### Section 4. First Aid Measures

4.1 **Description of First Aid** 

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.

Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated

clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined In Case of Eye Contact:

and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

# Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Use water spray to cool fire-exposed containers. Media:

Unsuitable Extinguishing A solid water stream may be inefficient.

5.2 Flammable Properties and No data available.

Hazards:

No data available.

Flash Pt: No data.

LEL: No data. **Explosive Limits:** UEL: No data.

**Autoignition Pt:** No data.

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

# SAFETY DATA SHEET

**Pertussis Toxin (islet-activating protein)** 

Revision: 03/15/2017 Supersedes Revision: 05/25/2016

Page: 3 of 6

Section 6. Accidental Release Measures

6.1 Avoid raising and breathing dust, and provide adequate ventilation. **Protective Precautions,** 

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). **Emergency Procedures:** 

6.2 **Environmental** Take steps to avoid release into the environment, if safe to do so.

**Precautions:** 

6.3 Methods and Material For Contain spill and collect, as appropriate.

Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Up:

# Section 7. Handling and Storage

7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.

in Handling: Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken Keep container tightly closed.

> Store in accordance with information listed on the product insert. in Storing:

### Section 8. Exposure Controls/Personal Protection

8.1 **Exposure Parameters:** 

8.2 **Exposure Controls:** 

8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

(Ventilation etc.): levels below recommended exposure limits.

8.2.2 Personal protection equipment:

**Eye Protection:** Safety glasses

**Protective Gloves:** Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

**Respiratory Equipment** NIOSH approved respirator, as conditions warrant.

(Specify Type):

Work/Hygienic/Maintenan Do not take internally.

ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.

Wash thoroughly after handling.

No data available.

# Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

> **Physical States:** [ ] Gas [ ] Liquid [X] Solid

Appearance and Odor: A solid pH: No data. **Melting Point:** No data. **Boiling Point:** No data. Flash Pt: No data. **Evaporation Rate:** No data.

No data available. Flammability (solid, gas):

**Explosive Limits:** LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or mm No data.

Hg):

Vapor Density (vs. Air = 1): No data.



# **SAFETY DATA SHEET**

**Pertussis Toxin (islet-activating protein)** 

Revision: 03/15/2017 Supersedes Revision: 05/25/2016

Specific Gravity (Water = 1): No data.

Solubility in Water: No data. **Octanol/Water Partition** No data.

Coefficient:

**Autoignition Pt:** No data. **Decomposition Temperature:** No data. Viscosity: No data.

9.2 Other Information

> **Percent Volatile:** No data.

### Section 10. Stability and Reactivity

No data available. 10.1 Reactivity:

10.2 Stability: Unstable [ ] Stable [X]

Stable if stored in accordance with information listed on the product insert. 10.3 Stability Note(s):

Polymerization: Will not occur [X] Will occur [ ]

10.4 **Conditions To Avoid:** No data available. 10.5 Incompatibility - Materials No data available.

To Avoid:

10.6 No data available. Hazardous

> **Decomposition or Byproducts:**

### Section 11. Toxicological Information

11.1 Information on The toxicological effects of this product have not been thoroughly studied.

Pertussis Toxin (islet-activating protein) - Toxicity Data: Intraperitoneal LD50 (mouse): 17160 **Toxicological Effects:** 

ng/kg; Subcutaneous TDLO (mouse): 333.333 ng/kg;

**Chronic Toxicological** Pertussis Toxin (islet-activating protein) - Investigated as a natural product.

Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. Effects:

See actual entry in RTECS for complete information.

Pertussis Toxin (islet-activating protein) RTECS Number: XW5883750

CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
70323-44-3	Pertussis toxin Histamine-sensitizing factor; IAP; Islet	n.a.	n.a.	n.a.	n.a.
	activating protein; Toxins, pertussis;				
	Lymphocytosis-promoting factor;				n.a.

# Section 12. Ecological Information

12.1 **Toxicity:** Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and No data available.

Degradability:

12.3 **Bioaccumulative** No data available.

Potential:

12.4 **Mobility in Soil:** No data available.

12.5 Results of PBT and vPvB No data available.

assessment:

12.6 Other adverse effects: No data available.

# SAFETY DATA SHEET

**Pertussis Toxin (islet-activating protein)** 

Revision: 03/15/2017

Page: 5 of 6

Supersedes Revision: 05/25/2016

# Section 13. Disposal Considerations

**13.1** Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

### Section 14. Transport Information

### 14.1 LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Toxins, extracted from living sources, solid, n.o.s. (Pertussis Toxin)

**DOT Hazard Class:** 6.1 POISON

UN/NA Number: UN3462 Packing Group: III



### 14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Toxins, extracted from living sources, solid, n.o.s. (Pertussis Toxin)

UN Number: 3462 Packing Group: III

Hazard Class: 6.1 - POISON

### 14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Toxins, extracted from living sources, solid, n.o.s. (Pertussis Toxin)

UN Number: 3462 Packing Group: III
Hazard Class: 6.1 - POISON IATA Classification: 6.1

Additional Transport Transport in accordance with local, state, and federal regulations.

Information: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of

E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

### Section 15. Regulatory Information

### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
70323-44-3	Pertussis toxin Histamine-sensitizing factor; IAP; Islet activating protein; Toxins, pertussis; Lymphocytosis-promoting factor;	No	No	No
CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists		

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
70323-44-3	Pertussis toxin Histamine-sensitizing factor; IAP;	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA
	Islet activating protein; Toxins, pertussis;	PROP.65: No
	Lymphocytosis-promoting factor;	

Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

Statement: No.1272/2008.



# **SAFETY DATA SHEET Pertussis Toxin (islet-activating protein)**

Page: 6 of 6

Revision: 03/15/2017 Supersedes Revision: 05/25/2016

## Section 16. Other Information

**Revision Date:** 03/15/2017

Additional Information About

No data available.

This Product:

Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information

currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for

their particular purposes.