# **SAFETY DATA SHEET**



#### Biotin-Protein A, 250ug/mL

### Section 1. Identification

GHS product identifier	: Biotin-Protein A, 250ug/mL
Other means of identification	: Not available.
Part number/Product code	: 18-1015
Product description	: 46.1 ml in a 60 ml plastic bottle.
Product type	: Liquid.
Relevant identified uses of t	ne substance or mixture and uses advised against
Identified uses	: Laboratory use only (research).
Supplier's details	: Pall ForteBio LLC
	47661 Fremont Boulevard
	Fremont, CA 94538 USA
	Tel: 650.322.1360
e-mail address of person responsible for this SDS	: Linda_Lewis@pall.com
Emergency telephone	: CHEMTREC, U.S. : 1-800-424-9300
number (with hours of	International: +1-703-527-3887
operation)	24 hours/day, 7 days/week

# Section 2. Hazards identification

OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: Not classified.
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.



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# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

#### **CAS number/other identifiers**

#### **CAS number**

: Not applicable.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

Potential acute health ef	fects
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/syr</u>	nptoms
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Indication of immediate m	edical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)



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### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: No specific data.
Special protective actions for fire-fighters	: No special protection is required.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.		
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).		
Methods and materials for co	ntainment and cleaning up		
Spill	: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact		

# Section 7. Handling and storage

Precautions for safe handling	L	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

information and Section 13 for waste disposal.



### Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities
 Store in accordance with local regulations. Store under refrigeration at 2°C to 8°C. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination of the reagent.

### Section 8. Exposure controls/personal protection

Control parameters	
Occupational exposure limit	<u>s</u>
None.	
Appropriate engineering controls	Not likely to be a problem due to the small quantity of material present. Handle in accordance with good hygiene practices. Wash hands before eating, drinking or smoking after using the product, and at the end of a work day.
Environmental exposure controls	: Keep from entering drains. Not likely to pose a problem due to the small quantity of material present.
Individual protection measure	<u>95</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	<ul> <li>Not likely to be needed due to the small quantity of material present. Standard laboratory safety spectacles.</li> </ul>
Skin protection	
Hand protection	<ul> <li>Handle using standard laboratory gloves, appropriate for the overall task being conducted. Consult manufacturer for suitability of materials.</li> </ul>
Body protection	: Not likely to be needed due to the small quantity of material present. Standard laboratory coat.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Not likely to be needed due to the small quantity of material present.

### Section 9. Physical and chemical properties

Appearance		
Physical state	1	Liquid.
Color	1	Clear.
Odor	1	Not available.
Odor threshold	:	Not available.
рН	:	7.4
Melting point	:	0°C (32°F)
Boiling point	:	100°C (212°F)
Flash point	:	Not applicable.
Evaporation rate	:	1 (Water = 1)
Flammability (solid, gas)	:	Not applicable.
Lower and upper explosive (flammable) limits	1	Not applicable.

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## **Section 9. Physical and chemical properties**

Vapor pressure	1	Not available.
Vapor density	:	Not available.
Relative density	:	1
Solubility	1	Not applicable.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	1	Not applicable.
Decomposition temperature	:	Not available.
Viscosity	1	Not available.

### Section 10. Stability and reactivity

Reactivity	: The product is stable under recommended conditions of storage and use.
Chemical stability	: The product is stable under recommended conditions of storage and use.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: None known.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

There is no data available.

#### Irritation/Corrosion

There is no data available.

#### **Sensitization**

There is no data available.

#### **Mutagenicity**

There is no data available.

#### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### Reproductive toxicity

There is no data available.

#### **Teratogenicity**

There is no data available.

#### Specific target organ toxicity (single exposure)

There is no data available.



#### Section 11. Toxicological information Specific target organ toxicity (repeated exposure) There is no data available. **Aspiration hazard** There is no data available. Information on the likely : Dermal contact. Eye contact. Ingestion. routes of exposure Potential acute health effects Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. : No known significant effects or critical hazards. Ingestion Symptoms related to the physical, chemical and toxicological characteristics Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure Potential immediate : No known significant effects or critical hazards. effects Potential delayed effects : No known significant effects or critical hazards. Long term exposure Potential immediate : No known significant effects or critical hazards. effects Potential delayed effects : No known significant effects or critical hazards. Potential chronic health effects General : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. **Mutagenicity** : No known significant effects or critical hazards. Teratogenicity 5 No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

#### Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

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### Section 12. Ecological information

Not likely to pose a serious ecological hazard due to the size of the product and the quantity of material present.

#### **Toxicity**

There is no data available.

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

There is no data available.

#### Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

- **Disposal methods**
- : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

### Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

**AERG** : Not applicable.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.



**U.S. Federal regulations** 

: United States inventory (TSCA 8b): All components are listed or exempted.

#### Biotin-Protein A, 250ug/mL

### Section 15. Regulatory information

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed

#### SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name		EHS	(lbs)	(gallons)	(lbs)	(gallons)
Sodium Azide		Yes.	500	-	1000	-
SARA 304 RQ <u>ARA 311/312</u>	: 2000000 lbs / 908000 kg [239868.2 gal / 908000 L]					
Classification	: Not applicable.					

#### SARA 313

**New Jersey** 

**Pennsylvania** 

There is no data available.

- <u>State regulations</u> Massachusetts New York
- : None of the components are listed.

: None of the components are listed.

- : None of the components are listed.
- : None of the components are listed.

California Prop. 65

No products were found.

### Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
Not classified.	
History	

Date of issue mm/dd/yyyy	: 04/30/2017
Date of previous issue	: 05/30/2015



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## Section 16. Other information

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Prepared by

: KMK Regulatory Services Inc.

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