Safety Data Sheet (SDS)

Revision Number: 2.0		Last updated: 25 July 2019		
1. Product and Company Identification				
Product Name:	Biotin - PA	CAP (1 - 38), amide, human, ovine, rat		
	Biotin - HSDC	GIFTDSYSRYRKQMAVKKYLAAVLGKRYKQRVKNK - NH2		
Manufacturer/Supplier:	AnaSpec, In	ic.		
	www.anasp	ec.com		
	34801 Cam	ous Drive		
	Fremont, C	A 94555		
	Tel: 510-79	1-9560		
	Fax: 510-79	1-9572		
	Email: servi	ce@anaspec.com		
Catalog Number:	AS-23590	-		

2. Hazards Identification

Emergency Overview: We do recommend handling all chemicals with caution. Use proper protective equipment when handling chemicals. To our knowledge, the hazards of this material have not been thoroughly investigated.

GHS Hazard Classification:

GHS Physical Hazards:

GHS Health and Environmental Hazards

GHS Signal Words: None

GHS Hazard Statements: H303, H313, Maybe harmful if swallowed or in contact with skin. Wear PPE.

GHS Precautionary Statements: P302, P340 May be respiratory irritant if inhaled. May cause respiratory tract

irritation.

Potential Health Effects for:

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Good hygiene practice requires that exposure be kept to a minimum and that suitable control

measures be used in an occupational setting.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Skin: In case of contact, immediately wash skin with soap and copious amount of water.

Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Chronic Exposures: No information available. We recommend limiting prolonged exposure.

Target Organs: No information available

HMIS Classification

Health hazard: 0

Chronic Health Hazard: 0

Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

3. Composition

Ingredients/Components:

Chemical Name: Biotin - PACAP (1 - 38), amide, human, ovine, rat

Biotin - HSDGIFTDSYSRYRKQMAVKKYLAAVLGKRYKQRVKNK - NH2

Molecular formula: N/A Molecular weight: 4761.6

CAS-No: N/A EC-No: N/A

Inhalation:	If dust is inhaled, remove from contaminated area.
	Encourage patient to blow nose to ensure clear passage of breathing.
	If irritation or discomfort persists seek medical attention.
Ingestion:	If swallowed do NOT induce vomiting.
	If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to
	maintain open airway and prevent aspiration.
	Observe the patient carefully.
	Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably
	drink.
	Seek medical advice.
Skin:	If skin or hair contact occurs:
	Flush skin and hair with running water (and soap if available).
	Seek medical attention in event of irritation.
Eyes:	If this product comes in contact with the eyes:
	Wash out immediately with fresh running water.
	Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the
	eyelids by occasionally lifting the upper and lower lids.
	If pain persists or recurs seek medical attention.

Extinguishing media:		Water spray or fog.
Extinguishing media.		Alcohol resistant foam.
		Dry chemical powder.
		BCF (where regulations permit).
		Carbon dioxide
		Carbon dioxide
Special firefighting procedures:		Alert Emergency Responders and tell them location and nature of hazard.
		Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water
		course. Use water delivered as a fine spray to control fire and cool adjacent
		area.
		DO NOT approach containers suspected to be hot.
		Cool fire exposed containers with water spray from a protected
		location.
		If safe to do so, remove containers from path of fire.
		Equipment should be thoroughly decontaminated after use.
Unusual fire and explos	sions hazards:	Emits toxic fumes under fire conditions
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6. Accidental Release		
	Remove all	I ignition sources.
	Remove all Clean up al	ll spills immediately.
6. Accidental Release Spill response	Remove all Clean up al Avoid cont	Il spills immediately. act with skin and eyes.
	Remove all Clean up al Avoid cont Control per	Il spills immediately. act with skin and eyes. rsonal contact by using protective equipment.
	Remove all Clean up al Avoid cont Control per Use dry cle	Il spills immediately. act with skin and eyes. rsonal contact by using protective equipment. ean up procedures and avoid generating dust.
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	Remove all Clean up al Avoid cont Control per Use dry cle Place in a s Avoid all p	Il spills immediately. act with skin and eyes. rsonal contact by using protective equipment. can up procedures and avoid generating dust. suitable, labeled container for waste disposal personal contact, including inhalation.
Spill response	Remove all Clean up al Avoid cont Control per Use dry cle Place in a s Avoid all p Wear prote	Il spills immediately. act with skin and eyes. resonal contact by using protective equipment. can up procedures and avoid generating dust. suitable, labeled container for waste disposal tersonal contact, including inhalation. active clothing when risk of exposure occurs.
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Spill response	Remove all Clean up al Avoid cont Control per Use dry cle Place in a s Avoid all p Wear prote Use in a we DO NOT a Avoid cont When hand Keep conta Avoid phys Always wa Use good o Empty cont following s ignition sou	Il spills immediately. act with skin and eyes. resonal contact by using protective equipment. can up procedures and avoid generating dust. cuitable, labeled container for waste disposal resonal contact, including inhalation. active clothing when risk of exposure occurs. cell-ventilated area. Inter confined spaces until atmosphere has been checked. Illow material to contact humans, exposed food or food utensils. act with incompatible materials. Iling, DO NOT eat, drink or smoke. Ininers securely sealed when not in use. Isical damage to containers. Ish hands with soap and water after handling. Incompatible materials occupational work practice. Itainers may contain residual dust which has the potential to accumulate settling. Such dusts may explode in the presence of an appropriate arce.

8. Exposure Controls			
Engineering controls	Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction. Exhaust ventilation should be designed to prevent accumulation and re-circulation of particulates in the workplace. If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered. Such protection might consist of: (a): particle dust respirators, if necessary, combined with an absorption cartridge; (b): filter respirators with absorption cartridge or canister of the right type; (c): fresh-air hoods or masks Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding. Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to efficiently		
DDE	remove the contan		
PPE	Use personal prote	ective equipment	
9. Physical and Chemi Physical State	Solid		
Odor	Not available		
Solubility in Water	Not available		
Specific Gravity	Not available		
pH	Not available		
Boiling Point	Not available		
Melting Point	Not available		
Flash Point	N/A		
Vapor Pressure:	N/A		
Vapor Density:	N/A	N/A	
10. Stability and Read	etivity		
Thermal Decomposition	ı	No data available	
Dangerous Products of		No data available	
Dangerous Reactions		COx, NOx when burned	
	closed in a dry well-v	rentilated place. Store in -20°C refrigerator.	
11. Toxicological Info	<u>rmation</u>		
RTECS Number		N/A	
Toxicity No information available.			

Although ingestion is not thought to produce harmful
effects, the material may still be damaging to the
health of the individual following ingestion, especially
where pre-existing organ (e.g. liver, kidney)
damage is evident. In an occupational setting however,
ingestion of insignificant quantities is not thought to be
cause for concern.
Not available
No significant acute toxicological data identified
N/A
N/A

Reproductive Toxicity:

No information available

12. Ecological Information

No information available.

13. Disposal Considerations

All waste must be handled in accordance with local, state and federal regulations. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

14. Transport Information

Hazard Class	N/A
Identification Number	N/A
Packing Group	N/A
Proper Shipping Name (DOT)	N/A

15. Regulatory Information

California Proposition 65: N/A

US TSCA (Toxic Substance Control Act): N/A

US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act: N/A

US SARA Title III (Superfund Amendments and Reauthorization Act: N/A

US Other: N/A

EC EINICS (European Inventory of Existing Commercial Chemical Substances) Number: N/A

EC Risk Statements: N/A

Other Country Regulations: N/A

16. Other Information

It is not intended for food, drug, household, agricultural or cosmetic use. A technically qualified individual experienced in handling potentially hazardous chemicals must supervise its use. The

above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. AnaSpec shall not be held liable for any damage resulting from handling or from contact with the above product.