Safety Data Sheet (SDS)

Revision Number: 2.0	Last updated: 25 July 2019
1. Product and Company Identification	<u>on</u>
Product Name:	hBD - 1, β - Defensin - 1, human
	DHYNCVSSGGQCLYSACPIFTKIQGTCYRGKAKCCK
	(Disulfide bridge: 5 - 34, 12 - 27, 17 - 35)
Manufacturer/Supplier:	AnaSpec, Inc.
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	Fremont, CA 94555
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Catalog Number:	AS-60740
2. Hazards Identification	
	nmend handling all chemicals with caution. Use proper protective o our knowledge, the hazards of this material have not been thoroughly <i>zards</i>
GHS Signal Words: None	
GHS Hazard Statements: H303, H313, J	Maybe harmful if swallowed or in contact with skin. Wear PPE.
GHS Precautionary Statements: P302, I irritatio	P340 May be respiratory irritant if inhaled. May cause respiratory tract on.
	ir. If not breathing, give artificial respiration. If breathing is difficult, give etice requires that exposure be kept to a minimum and that suitable control upational setting.
Ingestion: If swallowed, wash out mou	th with water provided person is conscious. Call a physician.
Skin: In case of contact, immediately wa	ash skin with soap and copious amount of water.
Eyes: In case of contact, immediately flu	sh 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	le

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 N	Name:
Chemieur	i ante.

hBD - 1, β - Defensin - 1, human DHYNCVSSGGQCLYSACPIFTKIQGTCYRGKAKCCK (Disulfide bridge: 5 - 34, 12 - 27, 17 - 35) Molecular formula: N/A Molecular weight: 3929.6 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:	<i>ion:</i> 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 comfort	
	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.	
5. Fire Fighting Measure	ures	
Extinguishing media:	Water spray or fog. Alcohol resistant foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide	
Special firefighting prod	cedures: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 wate 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	
6. Accidental Release	<u>Measures</u>	
Spill response	Remove all ignition sources. Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact by using protective equipment. Use dry clean up procedures and avoid generating dust. Place in a suitable, labeled container for waste disposal	
Containment	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Use good occupational work practice. Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source. Do NOT cut, drill, grind or weld such containers 	

Use personal protective equipment

PPE

7. Handling and Storage

Store at -20°C desiccated and protected from light. Store away from oxidizing agent.

8. Exposure Controls / Personal Protection

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
	remove the contaminant.
PPE	Use personal protective equipment

9. Physical and Chemical Properties

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Physical State	White Powder
Odor	Not available
Solubility in Water	Not available
Specific Gravity	Not available
рН	Not available
Boiling Point	Not available
Melting Point	Not available
Flash Point	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A

10. Stability and Reactivity

Thermal Decomposition	No data available
Dangerous Products of Decomposition	No data available
Dangerous Reactions	COx, NOx when burned

Keep container tightly closed in a dry well-ventilated place. Store in -20°C refrigerator.

11. Toxicological Information

RTECS Number	N/A
Toxicity	No information available.

Health Hazards	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.
Potential Hazards	Not available
Carcinogenicity:	No significant acute toxicological data identified
OSHA Permissible Exposure Limit(PEL) Data	N/A
ACGIH Threshold Limit Values (TLV)	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

N/A
N/A
N/A
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

AnaSpec Inc.

34801 Campus Drive, Fremont, CA 94555 Toll-Free: 800-452-5530 • Tel: 510-791-9560 • Fax: 510-791-9573 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.