Safety Data Sheet (SDS)

Revision Number: 3.0	_	Last updated 31 Ju	ly 2019
1. Product and Company Identification	<u>on</u>		
Product Name:	Renin Substrate, human		
	H - DRV YI	H PFH LVI HN - OH	
Manufacturer/Supplier:	AnaSpec, In		
	www.anaspec.com		
	34801 Campus Drive		
	Fremont, C		
	Tel: 510-79		
	Fax: 510-79		
	Email: servi	ce@anaspec.com	
	Kaneka Eur	ogentec SA,	
		S Saint Jean 5 4102 Seraing Belgium	
	Tel. +32-4-3		
	Fax. +32-4-		
		@eurogentec.com	
		ogentec Helpdesk	
	Tel. +32-4-3	3727665	
Catalog Number	AS-20631		
Relevant identified uses of the substance/preparation and uses advised against	For laborate	ory use only.	
Emergency information	country or I	act the regional Eurogentec representation in Kaneka Eurogentec S.A. directly (from 8 am	-
	pm)		
2. Hazards Identification			
		dling all chemicals with caution. Use proper . To our knowledge, the hazards of this material	
		ance according to the GHS angerous substance according to the GHS	
GHS Signal Words: None			

GHS Hazard Statements: None

GHS Precautionary Statements: None

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: Renin Substrate, human

H - DRV YIH PFH LVI HN - OH

Molecular formula: NA Molecular weight: 1760.1

CAS-No NA EC-No NA

## 4. First Aid Measures

Inhalation:				
	Encourage patient to blow nose to ensure clear passage of breathing.			
	If irritation or discomfort persists seek medical attention.			
Ingestion:	If swallowed do <b>NOT</b> 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.			
L				

5. Fire Fighting Meas	ures		
Extinguishing media:		Water spray or fog. Alcohol resistant foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide	
Special firefighting procedures:  Unusual fire and explosions hazards:		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 of the safe to do so, remove containers from path of fire.  Equipment should be thoroughly decontaminated after use.  Emits toxic fumes under fire conditions	
			6. Accidental Release
Spill response	Clean up a Avoid con Control pe Use dry cl	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 I Wear prote Use in a w DO NOT a DO NOT a Avoid con When hand Keep conta Avoid phy Always wa Use good a Empty cor following source.	Place in a suitable, labeled container for waste disposal  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	
PPE	Use person	nal protective equipment	
7. Handling and Stora		ted from light. Store away from oxidizing agent.	

8. Exposure Controls	/ Personal Protectic	an	
		<del></del>	
Engineering controls		tilation is required where solids are handled as powders or crystals;	
		lates 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		
		exhaust an adverse concentration of the substance in air could occur, ion should be considered. Such protection might consist of:	
	(a): particle dust re	espirators, if necessary, combined with an absorption cartridge;	
	(b): filter respirato	ors with absorption cartridge or canister of the right type;	
	(c): fresh-air hood		
	Build-up of electro	ostatic charge on the dust particle, may be prevented by bonding and	
	grounding.		
		equipment such as dust collectors, dryers and mills may require	
		on measures such as explosion venting.	
		generated in the workplace possess varying "escape" velocities which,	
		the "capture velocities" of fresh circulating air required to efficiently	
DDC	remove the contan		
PPE	Use personal prote	ective equipment	
0. Dl	!1 D		
9. Physical and Chemi	-		
Physical State	White Powder		
Odour	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 Read	<u>ctivity</u>		
Thermal Decomposition	n	No data available	
Dangerous Products of Decomposition		No data available	
Dangerous Reactions		COx, NOx when burned	
Keep container tightly of	closed in a dry well-v	ventilated place. Store in -20 °C, dry refrigerator.	
11. Toxicological Info	<u>ormation</u>		
RTECS Number		N/A	
T		NT ' C '1.11	

**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
(12)	- "

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.