Safety Data Sheet (SDS)

Revision Number: 4.0		Last updated		22 July 2019
1. Product and Company Identification				
Product Name:	HCV Protease FRET Substrate (RET S1)			
	Ac - DED(Ed	ans) EE-Abu X-SK(L	Dabcyl) - NF	H2
Manufacturer/Supplier:	AnaSpec, Inc			
	www.anaspec	<u>c.com</u>		
	34801 Campus Drive			
	Fremont, CA 94555			
	Tel: 510-791	9560		
	Fax: 510-791	-9572		
	Email: servic	e@anaspec.com		
	Kaneka Euro	gentec SA,		
	Rue du Bois Saint Jean 5 4102 Seraing Belgium			ım
	Tel. +32-4-37		$\mathcal{E}$	
	Fax. +32-4-3			
		eurogentec.com		
	Kaneka Euro	gentec Helpdesk		
	Tel. +32-4-37			
Catalog Number	AS-22991-02			
Relevant identified uses of the	For laborator	v use only.		
substance/preparation and uses advised		, 3		
against				
Emergency information		t the regional Euroge		
	country or Ka	neka Eurogentec S.A	A. directly (	from 8 am to 6
	pm)			
2. Hazards Identification				
Emergency Overview: We do re protective equipment (PPE) when hand have not been thoroughly investigated.		•		
GHS Hazard Classification: GHS Physical Hazards: Not a d GHS Health and Environmental Haz		ce according to the GHS gerous substance accordi	ng to the GHS	S
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: HCV Protease FRET Substrate (RET S1)

Ac - DED(Edans) EE-Abu X-SK(Dabcyl) - NH2

Molecular formula: NA Molecular weight: 1548.6

CAS-No NA EC-No NA

## 4. First Aid Measures

7 1 1	16.1 1.1.1 6 1.1.1
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 <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.

T	<u>sures</u>	TVV	
Extinguishing media:		Water spray or fog.	
		Alcohol resistant foam.  Dry chemical powder.	
		BCF (where regulations permit).	
		Carbon dioxide	
		Caroon 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.	
		<b>DO NOT</b> 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.	
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Unusual fire and explosions hazards:		Emits toxic fumes under fire conditions	
6. Accidental Release	Measures		
		ll ignition sources.	
		all spills immediately.	
		tact with skin and eyes.	
		ersonal contact by using protective equipment.	
		Use dry clean up procedures and avoid generating dust. Place in a suitable, labeled container for waste disposal	
	Avoid all personal contact, including inhalation.		
Containment			
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Containment	Wear prot Use in a w DO NOT DO NOT Avoid con	ective clothing when risk of exposure occurs.  rell-ventilated area.  enter confined spaces until atmosphere has been checked.  allow material to contact humans, exposed food or food utensils.  ttact with incompatible materials.	
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Containment	Wear prot Use in a w DO NOT DO NOT Avoid con When han Keep cont Avoid phy Always w Use good Empty con following source.	ective clothing when risk of exposure occurs.  rell-ventilated area.  enter confined spaces until atmosphere has been checked.  allow material to contact humans, exposed food or food utensils.  tact with incompatible materials.  dling, DO NOT eat, drink or smoke.  ainers securely sealed when not in use.  rsical damage to containers.  ash hands with soap and water after handling.  occupational work practice.  ntainers may contain residual dust which has the potential to accumulate settling. Such dusts may explode in the presence of an appropriate ignition	
Containment	Wear prot Use in a w DO NOT DO NOT Avoid con When han Keep cont Avoid phy Always w Use good Empty con following source.	ective clothing when risk of exposure occurs.  rell-ventilated area.  enter confined spaces until atmosphere has been checked.  allow material to contact humans, exposed food or food utensils.  tact with incompatible materials.  dling, DO NOT eat, drink or smoke.  ainers securely sealed when not in use.  rsical damage to containers.  ash hands with soap and water after handling.  occupational work practice.  ntainers may contain residual dust which has the potential to accumulate	
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8. Exposure Controls /	Personal Protection	<u>n</u>			
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.				
		should be designed to prevent accumulation and re-circulation of			
	particulates in the w				
	respiratory protection	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:			
	<ul><li>(a): particle dust respirators, if necessary, combined with an absorption cartridge;</li><li>(b): filter respirators with absorption cartridge or canister of the right type;</li></ul>				
	(c): fresh-air hoods				
		static charge on the dust particle, may be prevented by bonding and			
	grounding.				
		der 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" velocit				
		he "capture velocities" of fresh circulating air required to efficiently			
	remove the contami				
PPE	Use personal protec				
9. Physical and Chemic	al Properties				
Physical State	Dark-Red Powd	er			
Odour	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				
10. Stability and React	ivity				
Thermal Decomposition No data ava		No data available			
Dangerous Products of Decomposition No data a		No data available			
		COx, NOx when burned			
Keep container tightly cl	osed in a dry well-ve	entilated place. Store in -20 °C, dry refrigerator.			
11. Toxicological Infor	<u>emation</u>	1.v.,			
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			
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Carcinogenicity:	No significant acute toxicological data identified
OSHA Permissible Exposure Limit(PEL) Data	N/A
ACGIH Threshold Limit Values (TLV)	N/A
	<u> </u>

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.