# Safety Data Sheet (SDS)

Revision Number: 2.0		Last updated: 22 July 2019			
1. Product and Company Identification					
Product Name:	HIV Protease FRET Substrate I				
Manufacturer/Supplier:	AnaSpec, Inc.  www.anaspec.com  34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572 Email: service@anaspec.com				
Catalog Number:	AS-22992				

# 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: HIV Protease FRET Substrate I

Molecular formula: N/A Molecular weight: 1532.5

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 <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.		

FYTINGIIISNING WOMIN.		Water spray or fog.
Extinguishing media:		Alcohol resistant foam.
		Dry chemical powder.
		BCF (where regulations permit).
		Carbon dioxide
		outour diomag
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
		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 explos	ions hazards:	Emits toxic fumes under fire conditions
6. Accidental Release	<u>Measures</u>	
Spill response		ll ignition sources.
		all spills immediately.
		atact with skin and eyes.
		ersonal contact by using protective equipment.
	Use dry clean up procedures and avoid generating dust.	
		suitable, labeled container for waste disposal
<i>C</i>	Avoid all	personal contact, including inhalation.
Containment		anti alathing raham vials of same arms a arms
Containment	Wear prot	ective clothing when risk of exposure occurs.
Containment	Wear prot Use in a w	vell-ventilated area.
Containment	Wear prot Use in a w DO NOT	vell-ventilated area.  enter confined spaces until atmosphere has been checked.
Containment	Wear prot Use in a w DO NOT DO NOT	vell-ventilated area. enter confined spaces until atmosphere has been checked. allow material to contact humans, exposed food or food utensils.
Containment	Wear prot Use in a w DO NOT DO NOT Avoid con	vell-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 cor When han Keep cont Avoid phy Always w Use good Empty cor following	rell-ventilated area.  enter confined spaces until atmosphere has been checked.  allow material to contact humans, exposed food or food utensils.  attact 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.  attainers may contain residual dust which has the potential to accumulate settling. Such dusts may explode in the presence of an appropriate
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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		
	remove the contami		
PPE	Use personal protec		
9. Physical and Chemi Physical State	Lyophilized Red	d Powder	
Odor	Not available	V 1	
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>etivity</u>		
Thermal Decomposition	n	No data available	
Dangerous Products of Decomposition		No data available	
Dangerous Reactions		COx, NOx when burned	
Keep container tightly o	closed in a dry well-ve	entilated 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.