Safety Data Sheet (SDS)

Revision Number: 2.0		Last updated: 25 July 2019
1. Product and Company Iden	ntification_	
Product Name:		1, human, HiLyte TM Fluor 488 – labeled;
	HiLyte™ Fi	uor 488 - CSCSSLMDKECVYFCHLDIIW
	(Disulfide B	ridge: 1 - 15 and 3 - 11)
Manufacturer/Supplier:	AnaSpec, Ir	ic.
	www.anaspec.com	
	34801 Cam	ous Drive
	Fremont, C.	A 94555
	Tel: 510-791-9560	
	Fax: 510-791-9572	
	Email: service@anaspec.com	
Catalog Number:	AS-64817-0	025

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:

WARNING

GHS Health and Environmental Hazards

Harmful if swallowed (Category 4), H302 Harmful in contact with skin (Category 4), H312 Harmful if inhaled (Category 4), H332

GHS Signal Words: WARNING

GHS Hazard Statements:

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

Wear PPE.

GHS Hazard Symbol/Pictogram:



GHS Precautionary Statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/ eye protection/ face

protection

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position Comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P332+P313 If skin irritation occurs: Get medical advice/ attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403+P233 Store in well-ventilated place. Keep containers tightly closed.

P405 Store locked up

P501 Dispose of contents/containers to an approved waste disposal plant.

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: 2

Chronic Health Hazard: 0

Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 2

Fire: 0

Reactivity Hazard: 0

3. Composition

Ingredients/Components:

Chemical Name:

Endothelin 1, human, HiLyte™ Fluor 488 – labeled; HiLyte™ Fluor 488 - CSCSSLMDKECVYFCHLDIIW

(Disulfide Bridge: 1 - 15 and 3 - 11) Molecular formula: C₁₃₀H₁₇₃N₂₇O₃₇S₅

Molecular weight: 2848.4

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

4. First Aid Measures

Inhalation: If dust is inhaled, remove from contaminated area.

Encourage patient to blow nose to ensure clear passage of breathing.

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	If irritation or	discomfort persists seek medical attention.
Ingestion:	If swallowed do NOT induce vomiting.	
If vomiting occurs, lear maintain open airway a Observe the patient car		curs, lean patient forward or place on left side (head-down position, if possible) to
		airway and prevent aspiration.
		tient carefully.
		rinse out mouth, then provide liquid slowly and as much as casualty can comfortable
	drink.	
	Seek medical a	
Skin: If skin or hair contact		
		hair with running water (and soap if available).
		attention in event of irritation.
Wash out immediately v		comes in contact with the eyes:
		ediately with fresh running water.
		te irrigation of the eye by keeping eyelids apart and away from eye and moving the
		asionally lifting the upper and lower lids.
	If pain persists	or recurs seek medical attention.
5. Fire Figh	ting Measures	
Extinguishing media:		Water spray or fog.
		Alcohol resistant foam.
		Dry chemical powder.
		BCF (where regulations permit).
		Carbon dioxide
G . 10 0	1 1	
Special firefi	ghting procedures.	
		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 explosions ha	zards: Emits toxic fumes under fire conditions
6. Accidents	al Release Measui	res
Spill respons		Remove all ignition sources.
spiii respons		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 prot		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 enter commed 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 personal protective equipment

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

Physical State	Solid
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

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.