	Safe	ty Data Sheet	t (SDS)		
Revision Number: 1.1		Last updated: April 2014			
1. Product and Com	oany Identification	•			
Product Name:	AnaTa	g ^{тм} HiLyte Fluor ^{тм} 64	47 Microscale Protein	Labeling Kit	
Manufacturer/Supplie	www.ar 34801 C Fremon Tel: 510 Fax: 51	c, Inc. <u>naspec.com</u> Campus Drive t, CA 94555 0-791-9560 0-791-9572 service@anaspec.com			
Catalog Number	AS-720	-			
Unit Size	1 kit				
2. Hazards Identifica	tion				
GHS Health and Envi GHS Health and Envi GHS Signal Words:	<i>Is</i> Component D: Flar Other Components: Not <i>ronmental Hazards</i> Component A: Not Appl Component B and C: Irri Component D and E: Irri Component F and G:Not	icable tant to eyes tants to eyes and skin Applicable	y 4)		
GHS Hazard Statemer (((Other Components: Not <i>nts:</i> Component A,B,C,F,G: Component D: H227 Co Component E: H303 Ma <i>ry Statements:</i> None	None ombustible liquid	wed.		
HMIS Classification:					
Component A:	Component B:	Component C:	Component D:	Component E,F,G:	
Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 0	
Flammability: 0	Flammability: 0	Flammability: 0	Flammability: 2	Flammability: 0	
Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	

NFPA Rating:				
Component A:	Component B:	Component C:	Component D:	Component E,F,G:
Health hazard: 0				
Fire: 0	Fire: 0	Fire: 0	Fire: 2	Fire: 0
Reactivity hazard: 0				

3. Composition / Information on Ingredients

Ingredients/Components:

Chemical Name:	Description	CAS Number:
Component A	Proprietary	N/A
Component B	Proprietary	N/A
Component C	Polyacrylamide-co-methylene-bis-acrylamide	25034-58-6
Component D	DMSO	67-68-5
Component E	Proprietary	NA
Component F and G	Wash tube and Collection tube	NA

4. First Aid Measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Component A,F and G: Not Applicable

Component B

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Skin: Wash off with soap and plenty of water.

Eyes: Flush eyes with water as a precaution.

Component C

Inhalation: If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

Ingestion: Induce vomiting and call for medical help.

Skin: Generally this component does not irritate the skin

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes.

Component D

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Skin: Wash off with soap and plenty of water. Consult a physician.

Eyes: Flush eyes with water as a precaution.

Component E

Inhalation: Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- *Skin:* Rinse with plenty of water. If symptoms arise, call a physician.
- *Eyes:* Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

5. Fire Fighting Measures	
Extinguishing media:	Component A, F and G: Not Applicable
	Component B: Use water spray, alcohol-resistant foam, dry chemical or
	carbon dioxide.
	Component C: CO2, extinguishing powder or water spray. Fight larger fires
	with water spray or alcohol resistant foam
	Component D: For small fires, use alcohol resistant foam, dry chemical, or
	carbon dioxide. For large fires, use water spray from a safe distance.
	Component E: Water spray. Carbon dioxide (CO2). Foam. Dry chemical.
Special firefighting procedures:	Component A,F and G : Not Applicable
	Component B: Wear self-contained breathing apparatus for firefighting if
	necessary.
	Component C: No special measures required
	Component D: Fire fighters should wear positive pressure self-contained
	breathing apparatus (SCBA) and full turnout gear.
	Component E: Wear self-contained breathing apparatus and protective
	Suit.
Unusual fire and explosions hazards:	Component D: Combustible liquid and vapor. Vapors are heavier than air
	and may travel to a source of ignition and flash back. Vapors can spread
	along the ground and collect in low or confined areas. Hazardous carbon
	oxides and sulphur oxides formed under fire conditions.
	Other Components: None

6. Accidental Release Measures

Containment and spill	Component A, F and G: Not Applicable
response	Component B: Keep in suitable, closed containers for disposal.
	Immediately contact emergency personnel. Prevent further leakage or spillage if safe to
	do so. Avoid breathing vapors or mist. Remove all sources of ignition and provide
	ventilation. Collect with an electrically protected vacuum cleaner, by wet-brushing, or
	by absorbing with vermiculite, sand or earth, and place in appropriate container for
	disposal. Do not let material enter drains.
	Component C: Wear protective equipment. Keep unprotected persons away.
	Component D: Immediately contact emergency personnel. Prevent further leakage or
	spillage if safe to do so. Avoid breathing vapors or mist. Remove all sources of
	ignition and provide ventilation. Collect with an electrically protected vacuum cleaner,
	by wet-brushing, or by absorbing with vermiculite, sand or earth, and place in
	appropriate container for disposal. Do not let material enter drains.
	Component E: Soak up with inert absorbent material
PPE	Use personal protective equipment

7. Handling and Storage

Component A, C: Keep in dry place. **Component B:** Keep container tightly closed in a dry and well-ventilated place. **Component D:** *Handling:* Wash thoroughly after handling. Remove and wash any contaminated clothing. Keep container tightly closed and avoid contact with eyes, skin, and clothing. Use with adequate ventilation and avoid ingestion and inhalation. Keep away from heat and flame.

Storage: Store in a tightly closed container away from moisture, heat, and flame. Store away from incompatible substances. Storage under a nitrogen blanket has been recommended.

Component E:

Handling: Avoid contact with skin, eyes and clothing. Wear personal protective equipment. *Storage:* Keep in a dry, cool and well-ventilated place.

8. Exposure Controls / Personal Protection

Engineering controls	Component A,F and G: Not Applicable
	Component B and C: Facilities storing and using this material should be equipped with a
	safety shower and eyewash station.
	Component D: Facilities storing and using this material should be equipped with a safety
	shower and eyewash station. Adequate ventilation should also be present.
	Component E: Ensure adequate ventilation, especially in confined areas
PPE	Component A ,B:
	Respiratory System: Respiratory protection not required
	Hands: Handle with gloves. Gloves must be inspected prior to use. Use proper glove
	removal technique (without touching glove's outer surface) to avoid skin contact with this
	product. Dispose of contaminated gloves after use in accordance with applicable laws and
	good laboratory practices. Wash and dry hands.
	<i>Eyes:</i> Use equipment for eye protection tested and approved under appropriate government
	standards such as NIOSH (US) or EN 166(EU).
	Skin and body protection: impervious clothing, The type of protective equipment must be
	selected according to the concentration and amount of the dangerous substance at the
	specific workplace.
	Component C:
	The usual precautionary measures of handling chemicals should be followed
	Hands: Protective gloves
	Eyes: Safety glasses.
	Component D:
	Respiratory System: A respiratory protection program that meets OSHA's 29 CFR 1910.134
	and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever
	workplace conditions warrant respirator use.
	Skin and Body: Wear appropriate work uniform or laboratory coat to prevent skin exposure.
	Hands: Use chemical resistant, impervious gloves. Appropriate techniques should be used
	to remove potentially contaminated gloves.
	Eyes: Wear chemical splash goggles.
	Component E:
	Respiratory System: In case of insufficient ventilation wear suitable respiratory equipment.
	Skin and Body: Lightweight protective clothing.
	Hands: Impervious gloves.
	Eyes: Safety glasses with side-shields
	Component F and G: None

Physical State	Component A,C,F and G-Solid Component B, D and E-Liquid			
Odo	Not determined			
Solubility in Water	Soluble			
Specific Gravity	Not determined			
pН	Component B -9			
	Component C-7			
	Component E -7.3			
Boiling Point	Not determined			
Melting Point	Not determined			
Flash Point	Not determined			
Vapor Pressure:	Not determined			
Vapor Density:	Not determined			
10.Stability and Reactivity Thermal Decomposition	Not applicable			
-				
Dangerous Products of Decomposition	Not Applicable			
Dangerous Reactions	Applicable			
11.Toxicological Information				
RTECS Number	Component A.B,C: NA			
	Component D: PV6210000			
	Component E,F, G: NA			
Toxicity	Component D contains DMSO. For DMSO			
	Oral LD50			
	LD50 Oral - rat - 14,500 mg/kg			
	Inhalation LC50			
	LC50 Inhalation - rat - 4 h - 40250 ppm			
	Dermal LD50			
	LD50 Dermal - rabbit - > 5,000 mg/kg			
Health Hazards	No data available			
Potential Hazards	None			
Carcinogenicity:	No data available			
OSHA Permissible Exposure Limit(PEL)				
ACGIH Threshold Limit Values (TLV) 12. Ecological Information	No data available			

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. **Component D**: For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5

Toxicity	
Toxicity to fish LC50 - Pimephales promelas (fa	thead minnow) 24,000 mg/l 06 h
LC50 - Oncorhynchus mykiss (rainbow trout) - 3	
	tes. EC50 - Daphnia pulex (Water flea) - 27,500 mg/l
Toxicity to algae EC50 - Lepomis macrochirus (
Persistence and degradability	Blueghi) - > 400,000 hig/1 - 90 h
No data available	
Bioaccumulative potential	
No data available	
Mobility in soil	
No data available	
PBT and vPvB assessment	
No data available	
Other adverse effects	
No data available	
13. Disposal Considerations	
Component C: Hand over to hazardous waste d	isposers
Component D: For Dimethyl sulfoxide (DMSO	
	nemical incinerator equipped with an afterburner and scrubber. Offer
surplus and non-recyclable solutions to a license	
Contaminated packaging	
Dispose of as unused product.	
14. Transport Information: IATA Excempted	d quantities labeling
UN Number	N/A
Hazard Class	N/A
Packing Group	N/A
Proper Shipping Name (DOT)	N/A
15. Regulatory information	
California Proposition 65:	None
US TSCA (Toxic Substance Control Act):	Component A,B,C: Not listed
,	Component D: Listed
	Component E,F,G: Not listed
US CERCLA (Comprehensive Environmental	
US CENCLA (Comprehensive Environmental	Component A,B,C : N/A
Response, Comprehensive Environmental Response, Compensation, and Liability Act:	Component A,B,C : N/A Component D: 261.33 8(d).

US SARA Title III:			Com	Component A,B,C, E,F			
				SARA 302 components: N/A			
			SAR	A 313	3 components: N	//A	
					1/312 Hazards: N		
			Com	pone	nt D		
					2 components: N		
					3 components: N		
			SAR	A 311	1/312 Hazards: F	Fire Hazard, Chroni	c Health Hazard
US Clean Air Act:			Com	pone	nt A, B, C, D , H	E,F,G	
						ir Pollutants: Not li	sted
						e Depletors: Not lis	
			Liste	d und	ler Class 2 Ozon	e Depletors: Not lis	sted
US Clean Water Ad	et:				nt A, B, C, D,E,		
						Substances": Not lis	ted
						utants": Not listed	
			Liste	d und	ler "Toxic Pollut	ants": Not listed	
US States: Right	-to-Kna	ow: Listed in the	e following Sta	tes:			
Component A:	Co	mponent B:	Component	C:	Component D:		Component E,F,G:
					Pennsylvania		
N/A	N/4	4	N/A		Revision Date 2007-03-01		N/A
N/A	N/A	•	N/A		New Jersey Revision Date 2007-03-01		N/A
N/A N/A	N/A		N/A N/A		N/A		N/A N/A
	an/International Regulations:		11/71		11/11		11/21
	anonal	Component A	Component B		Component C	Component D	Component E,F,G
EC EINICS		N/A	N/A	N/		200-664-3	N/A
EC Risk statements		N/A	N/A	N/		36/37/38	N/A
WGK		N/A	N/A	N/		1	N/A
		Not listed	Not listed		ot listed	Listed	Not listed
DSL/NDSL			1 tot listou				
		N/A	D2B		2B	D2B	N/A
Canada-	WHMIS classification		220				
	ation						
WHMIS classifica	ation	Not Listed	Not Listed	No	ot Listed	Listed	Not Listed
		Not Listed	Not Listed	No	ot Listed	Listed	Not Listed

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.