	Safet	y Data Sheet (SDS)
Revision Number: 1.		Last updated: April 2015
1. Product and Con	ipany Identification	
Product Name:	AnaTag	TM HiLyte Fluor TM 488 Microscale Protein Labeling Kit
Manufacturer/Suppli	www.ana 34801 Ca Fremont,	z, Inc. aspec.com ampus Drive , CA 94555 -791-9560
	Fax: 510	-791-9572 ervice@anaspec.com
Catalog Number	AS-7204	
Unit Size	1 kit	
	<i>ication:</i> ds Component D: Flammable Other Components: Not A	
	Vironmental Hazards Component A: Not Applic Component B and C: Irrita Component D and E: Irrita Component F and G:Not A	ant to eyes ants to eyes and skin
	Component D: Warning Other Components: Not A	Applicable
	ents: Component A,B,C,F,G: N Component D: H227 Con Component E: H303 May	nbustible liquid

GHS Precautionary Statements: None

HMIS Classification:

Component A:	Component B:	Component C:	Component D:	Component E,F,G:
Health hazard: 0				
Flammability: 0	Flammability: 0	Flammability: 0	Flammability: 2	Flammability: 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:

ien	is/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 Meas	<u>sures</u>			
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 proc	edures:	 Component E: Water spray: Carbon dioxide (CO2): Foam. Dry chemical. 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: 6. Accidental Release Measures		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		
Containment and spill response	Compone Compone Immediat do so. Av ventilatio by absort disposal. Compone spillage in ignition a by wet-br appropria	ent A, F and G: Not Applicable ent B: Keep in suitable, closed containers for disposal. rely contact emergency personnel. Prevent further leakage or spillage if safe to roid breathing vapors or mist. Remove all sources of ignition and provide n. Collect with an electrically protected vacuum cleaner, by wet-brushing, or bing with vermiculite, sand or earth, and place in appropriate container for Do not let material enter drains. ent C: Wear protective equipment. Keep unprotected persons away. ent D: Immediately contact emergency personnel. Prevent further leakage or f safe to do so. Avoid breathing vapors or mist. Remove all sources of nd provide ventilation. Collect with an electrically protected vacuum cleaner, rushing, or by absorbing with vermiculite, sand or earth, and place in the container for disposal. Do not let material enter drains. ent E: Soak up with inert absorbent material		
PPE	Use pers	onal protective equipment		
7 . Handling and Stor				
Component A, C: Ke	ep in dry plac	ce.		

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.				
	<i>Eyes:</i> Safety glasses with side-shields				
	Component F and G: None				

Odo olubility in Water pecific Gravity H	Not determined Soluble						
pecific Gravity							
	NT . 1 . 1 1						
H	Not determined	Not determined					
	Component B -9						
	Component C-7						
	Component E -7.3						
oiling Point	Not determined						
Ielting Point	Not determined						
lash Point	Not determined						
apor Pressure:	Not determined						
apor Density:	Not determined						
0.Stability and Reactivity							
hermal Decomposition	Not applicable						
-							
Dangerous Products of Decomposition	Not Applicable						
Dangerous Reactions	Not Applicable						
1.Toxicological Information							
TECS Number	Component A.B,C: NA						
	Component D: PV6210000						
	Component E,F, G: NA						
oxicity	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						
lealth Hazards	No data available						
Potential Hazards	None						
Carcinogenicity:	No data available) No data available						
PSHA Permissible Exposure Limit(PEL Data	/ Ino data availadie						
CGIH Threshold Limit Values (TLV)	No data available						
2. Ecological Information							

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

nead minnow) - 34,000 mg/l - 96 h					
5,000 mg/l - 96 h					
es. EC50 - Daphnia pulex (Water flea) - 27,500 mg/l					
Bluegill) - > 400,000 mg/l - 96 h					
No data available					
Bioaccumulative potential					
sposers					
CAS-No. 67-68-5					
mical incinerator equipped with an afterburner and scrubber. Offer					
surplus and non-recyclable solutions to a licensed disposal company.					
N/A					
N/A					
N/A					
N/A					
None					
Component A,B,C: Not listed					
Component D : Listed					
Component E,F,G: Not listed					
Component A.B.C : N/A					
Component A,B,C : N/A Component D: 261.33 8(d).					

US SARA Title III:	Component A,B,C, E,F
	SARA 302 components: N/A
	SARA 313 components: N/A
	SARA 311/312 Hazards: N/A
	Component D
	SARA 302 components: N/A
	SARA 313 components: N/A
	SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard
US Clean Air Act:	Component A, B, C, D, E,F,G
	Listed under Hazardous Air Pollutants: Not listed
	Listed under Class 1 Ozone Depletors: Not listed
	Listed under Class 2 Ozone Depletors: Not listed
US Clean Water Act:	Components A, B, C, D,E,F and G
	Listed under "Hazardous Substances": Not listed
	Listed under "Priority Pollutants": Not listed
	Listed under "Toxic Pollutants": Not listed

US States: Right-to-Know: Listed in the following States:

Component A:	Component B:	Component C:	Component D:	Component E,F,G:	
			Pennsylvania		
N/A	N/A	N/A	Revision Date 2007-03-01	N/A	
			New Jersey		
N/A	N/A	N/A	Revision Date 2007-03-01	N/A	
N/A	N/A	N/A	N/A	N/A	

European/International Regulations:

	Component A	Component B	Component C	Component D	Component E,F,G
EC EINICS	N/A	N/A	N/A	200-664-3	N/A
EC Risk statements	N/A	N/A	N/A	36/37/38	N/A
WGK	N/A	N/A	N/A	1	N/A
Canada- DSL/NDSL	Not listed	Not listed	Not listed	Listed	Not listed
Canada- WHMIS classification	N/A	D2B	D2B	D2B	N/A
Canada- Canadian Ingredient Disclosure List	Not Listed	Not Listed	Not 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.