Safety Data Sheet (SDS)

1. Product and Company Ident Product Name:	AnaTag TM HiLyte Fluor TM 750 Microscale Protein Labeling Kit		
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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-72044		
Unit Size	1 kit		

2. Hazards Identification

Emergency Overview:

GHS Hazard Classification:

GHS Physical Hazards

Component D: Flammable liquid (Category 4)

Other Components: Not Applicable

GHS Health and Environmental Hazards

Component A: Not Applicable Component B and C: Irritant to eyes

Component D and E: Irritant to eyes and skin

Component F and G:Not Applicable

GHS Signal Words:

Component D: Warning

Other Components: Not Applicable

GHS Hazard Statements:

Component A,B,C,F,G: None

Component D: H227 Combustible liquid

Component E: H303 May be harmful if swallowed.

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				

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Ν	FI	^{2}A	R	ati	n	g:

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 Extinguishing media				
	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 p				
special fireframing p	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 exp				
	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 Rele	ase Measures			
Containment and spi	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			
222				
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
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8. Exposure Cont	rols / Personal Protection
Engineering controls	Component A,F and G: Not Applicable
	Component Band 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.
	Eyes: 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	
рН	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	
Thermal Decomposition	Not applicable	
Dangerous Products of Decomposition	Not Applicable	
Dangerous Reactions	Not 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 pp:	m
	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)	No data available	
Data		
ACGIH Threshold Limit Values (TLV)	No data available	

12. Ecological Information

Component C: Water hazard class 1 (German Regulation): slightly hazardous for water.

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 (fathead minnow) - 34,000 mg/l - 96 h

LC50 - Oncorhynchus mykiss (rainbow trout) - 35,000 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates. EC50 - Daphnia pulex (Water flea) - 27,500 mg/l

Toxicity to algae EC50 - Lepomis macrochirus (Bluegill) - > 400,000 mg/l - 96 h

Persistence and degradability

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

UN Number

Hazard Class

US Clean Water Act

13. Disposal Considerations

Component C: Hand over to hazardous waste disposers

Component D: For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

N/A

N/A

Contaminated packaging

Dispose of as unused product.

14. Transport Information:

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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	Component A,B,C: N/A
Response, Compensation, and Liability Act:	Component D : 261.33 8(d).
	Component E,F,G: N/A
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

Listed under "Hazardous Substances": Not listed Listed under "Priority Pollutants": Not listed Listed under "Toxic Pollutants": Not listed

Components A, B, C, D,E,F and G

US States: Right-	<u>-to-Know: Listed in t</u>	<u>he following States:</u>			
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/Internat	ional 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-	Not listed	Not listed	Not listed	Listed	Not listed
DSL/NDSL					
Canada-	N/A	D2B	D2B	D2B	N/A
WHMIS classification					
Canada-	Not Listed	Not Listed	Not Listed	Listed	Not Listed
Canadian Ingredient					
Disclosure List					

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.