Safety Data Sheet (SDS)

Revision Number: 1.1	Last updated: April 2015
1. Product and Company Iden	<u>tification</u>
Product Name:	AnaTag™ HiLyte Fluor™ 555 Protein Labeling Kit
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-72045
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: Irritants 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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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:

itis, 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

nersist call	a physician.	
persist, can	a physician.	
5. Fire Fighting Meas	ures	
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 proce	edures:	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
T7 1 C 1 1 1 .	7 7	Suit.
Unusual fire and explosion	ons 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 M	easures	
Containment and spill	Compone	ent A, F and G: Not Applicable
response	Compone	ent B: Keep in suitable, closed containers for disposal.
		ely contact emergency personnel. Prevent further leakage or spillage if safe to
ventilation by absorb disposal. Compon Compon spillage i		oid breathing vapors or mist. Remove all sources of ignition and provide
		n. Collect with an electrically protected vacuum cleaner, by wet-brushing, or
		ing 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
		safe to do so. Avoid breathing vapors or mist. Remove all sources of ignition
	1	de ventilation. Collect with an electrically protected vacuum cleaner, by wet-
	_	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		•
	Compone	Ent L. Soak up with men 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

o. Exposure Conti	ols / Fersonal Frotection
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.
	<i>Hands:</i> 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

9.	Phy	ysical	and	Chemical	Pro	perties
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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		
pH	Component B -9		
	Component C-7		
	Component E -7.3		
Boiling Point	Not determined	Not determined	
Melting Point	Not determined	Not determined	
Flash Point	Not determined	Not determined	
Vapor Pressure:	Not determined	Not determined	
Vapor Density:	Not determined	Not determined	

10.Stability and Reactivity

Total Williams Total Transport		
	Thermal Decomposition	Not applicable
	Dangerous Products of Decomposition	Not Applicable
	Dangerous Reactions	Not Applicable

11.Toxicological Information

11.1 oxicological 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) Data	No data available
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

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.

Contaminated packaging

Dispose of as unused product.

14. Transport Information:

15. Regulatory information		
Proper Shipping Name (DOT)	N/A	
Packing Group	N/A	
Hazard Class	N/A	
UN Number	N/A	

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

N/A

N/A

US SARA Title III		Component A,B,C, E,F					
		SARA 3	02 components: N/A				
1		SARA 3	13 components: N/A				
		SARA 3	11/312 Hazards: N/A				
		Compon	Component D				
		SARA 3	SARA 302 components: N/A				
		SARA 3	SARA 313 components: N/A				
		SARA 3	SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard				
US Clean Air Act:		Compon	Component A, B, C, D, E,F,G				
		Listed ur	nder Hazardous Air Pollutants: N	lot listed			
		Listed ur	Listed under Class 1 Ozone Depletors: Not listed				
		Listed ur	Listed under Class 2 Ozone Depletors: Not listed				
US Clean Water Ac	rt	Compon	Components A, B, C, D,E,F and G				
		Listed ur	Listed under "Hazardous Substances": Not listed				
		Listed ur	Listed under "Priority Pollutants": Not listed				
		Listed ur	nder "Toxic Pollutants": Not liste	ed			
US States: Right-	to-Know: Listed in th	e 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			

European/International Regulations:

N/A

N/A

	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					

N/A

N/A

New Jersey

N/A

Revision Date 2007-03-01

16. Other Information

N/A

N/A

HC CADA TO A H

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.