Safety Data Sheet (SDS)

Revision Number: 1.1	Last updated: April 2015			
1. Product and Company Identification				
Product Name: AnaTag TM HiLyte Fluor TM 750 Protein Labeling Kit				
Manufacturer/Supplier:	AnaSpec, Inc. <u>www.anaspec.com</u> 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572			
Catalog Number	Email: service@anaspec.com AS-72043			

2. Hazards Identification

Emergency Overview:

Unit Size

GHS Hazard Classification: GHS Physical Hazards

> Component D: Flammable liquid (Category 4)

Other Components: Not Applicable

1 kit

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

GHS Signal Words:

Component D: Warning

Other Components: Not Applicable

GHS Hazard Statements:

Component A,B,C: 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:
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:
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

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: 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.

Extinguishing medic	7.	Component A: Not Applicable		
Exinguishing media.		Component A: 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: 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		
YY 1.0 1		Suit.		
Unusual fire and ex	plosions 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 Relea	se Measures			
Containment and sp	ill Compo	onent A: Not Applicable		
response	Compo	onent B: Keep in suitable, closed containers for disposal.		
		iately contact emergency personnel. Prevent further leakage or spillage if safe to		
		Avoid breathing vapors or mist. Remove all sources of ignition and provide		
		ion. Collect with an electrically protected vacuum cleaner, by wet-brushing, or		
		rbing with vermiculite, sand or earth, and place in appropriate container for		
	_	I. Do not let material enter drains.		
Compose spillage ignition by wet-b		mponent C: Wear protective equipment. Keep unprotected persons away.		
		onent D: Immediately contact emergency personnel. Prevent further leakage or		
		if safe to do so. Avoid breathing vapors or mist. Remove all sources of and provide ventilation. Collect with an electrically protected vacuum cleaner,		
		et-brushing, or by absorbing with vermiculite, sand or earth, and place in		
		iate container for disposal. Do not let material enter drains.		
		Component E: Soak up with inert absorbent material.		
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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: 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 R.

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

Odo					
Ouo	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				
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	Not Applicable				
11.Toxicological Information					
RTECS Number	Component A.B,C,E: NA				
	Component D: PV6210000				
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

9. Physical and Chemical Properties

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:

UN Number	N/A
Hazard Class	N/A
Packing Group	N/A
Proper Shipping Name (DOT)	N/A

15. Regulatory information

None
Component A,B,C,E: Not listed
Component D: Listed
Component A,B,C,E: N/A
Component D : 261.33 8(d).
Component A,B,C, E,
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
Component A, B, C, D , and E
Listed under Hazardous Air Pollutants: Not listed
Listed under Class 1 Ozone Depletors: Not listed
Listed under Class 2 Ozone Depletors: Not listed
Component A, B, C, D, and E
Listed under "Hazardous Substances": Not listed
Listed under "Priority Pollutants": Not listed
Listed under "Toxic Pollutants": Not listed

US States: Right	<u>-to-Know: Listed in tl</u>	he following States:			
Component A:	Component B:	Component C:	Component D:	Component E:	
			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/Intern	ational Regulations:				

	Component A	Component B	Component C	Component D	Component E
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.