# Safety Data Sheet (SDS)

Revision Number: 1.1	Last updated: April 2015

### **1. Product and Company Identification**

Product Name:	AnaTag <sup>TM</sup> HiLyte Fluor <sup>TM</sup> 488 Protein Labeling Kit	188 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: <u>service@anaspec.com</u>		
Catalog Number	AS-72047		
Unit Size	1 kit		

### 2. Hazards Identification

<u>Emergency Overview:</u> 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:	It A: Component B: Component C: Component D		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
<b>.</b>	physician.
0	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.
Componer	nt C
Inhalation:	If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.
T	
•	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.
Componen	
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.
Componen	•
-	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.

<b>5. Fire Fighting Measu</b>	ires			
Extinguishing media:		Component A, F and G: Not Applicable		
		<b>Component B:</b> Use water spray, alcohol-resistant foam, dry chemical or		
		carbon dioxide.		
		<b>Component C:</b> CO2, extinguishing powder or water spray. Fight larger fires		
		with water spray or alcohol resistant foam		
		<b>Component D:</b> For small fires, use alcohol resistant foam, dry chemical, or		
		carbon dioxide. For large fires, use water spray from a safe distance.		
<u> </u>		<b>Component E:</b> Water spray. Carbon dioxide (CO2). Foam. Dry chemical.		
Special firefighting proce	dures:	Component A,F and G : Not Applicable		
		<b>Component B:</b> Wear self-contained breathing apparatus for firefighting if		
		necessary.		
		<b>Component C:</b> No special measures required		
		<b>Component D:</b> Fire fighters should wear positive pressure self-contained		
		breathing apparatus (SCBA) and full turnout gear.		
		<b>Component E:</b> Wear self-contained breathing apparatus and protective Suit.		
Unusual fire and explosio	ns hazards.	<b>Component D:</b> Combustible liquid and vapor. Vapors are heavier than air		
Onusuui jire unu explosio	ms nuzurus.	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	Compon	ent A, F and G: Not Applicable		
response		ent B: Keep in suitable, closed containers for disposal.		
	-	tely contact emergency personnel. Prevent further leakage or spillage if safe to		
	do so. Av	void breathing vapors or mist. Remove all sources of ignition and provide		
	ventilatio	on. Collect with an electrically protected vacuum cleaner, by wet-brushing, or		
	by absort	bing with vermiculite, sand or earth, and place in appropriate container for		
	disposal.	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		
	1 0	f safe to do so. Avoid breathing vapors or mist. Remove all sources of		
	U	and provide ventilation. Collect with an electrically protected vacuum cleaner,		
	-	rushing, or by absorbing with vermiculite, sand or earth, and place in		
		ate container for disposal. Do not let material enter drains.		
	Compon	ent E: Soak up with inert absorbent material		
PPE	Use pers	sonal protective equipment		
7 Handling and Stars				
7. Handling and Stora				
Component A, C: Kee	p 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 Contro	Is / Personal Protection
Engineering controls	Component A,F and G: Not Applicable
	<b>Component C:</b> Facilities storing and using this material should be equipped with a safety
	shower and eyewash station.
	<b>Component B:</b> Facilities storing and using this material should be equipped with a safety
	shower and eyewash station.
	<b>Component D:</b> 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.
	<i>Skin and Body:</i> 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.
	<i>Eyes:</i> Wear chemical splash goggles.
	Component E:
	<i>Respiratory System:</i> In case of insufficient ventilation wear suitable respiratory equipment.
	Skin and Body: Lightweight protective clothing.
	Hands: Impervious gloves.
	Eyes: Safety glasses with side-shields

9. Physical and Chemical Proper	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	
pH	Component B -9	
P	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	
<b>10.Stability and Reactivity</b>		
Thermal Decomposition	Not applicable	
Dangerous Products of Decompositio	m Not Applicable	
Dangerous Reactions	Not Applicable	
	Not Applicable	
11.Toxicological Information	Component A.B,C: NA Component D: PV6210000	
Dangerous Reactions <u>11.Toxicological Information</u> RTECS Number Toxicity	Component A.B,C: NA Component D: PV6210000 Component E,F, G: NA	
11.Toxicological Information	Component A.B,C: NA Component D: PV6210000 Component E,F, G: NA Component D contains DMSO.	
<b><u>11.Toxicological Information</u></b> RTECS Number	Component A.B,C: NA Component D: PV6210000 Component E,F, G: NA Component D contains DMSO. For <b>DMSO</b>	
<b><u>11.Toxicological Information</u></b> RTECS Number	Component A.B,C: NA Component D: PV6210000 Component E,F, G: NA Component D contains DMSO. For <b>DMSO</b> Oral LD50	
<b><u>11.Toxicological Information</u></b> RTECS Number	Component A.B,C: NA Component D: PV6210000 Component E,F, G: NA Component D contains DMSO. For <b>DMSO</b>	
<b><u>11.Toxicological Information</u></b> RTECS Number	Component A.B,C: NA Component D: PV6210000 Component E,F, G: NA Component D contains DMSO. For <b>DMSO</b> Oral LD50 LD50 Oral - rat - 14,500 mg/kg	
<b><u>11.Toxicological Information</u></b> RTECS Number	Component A.B,C: NA Component D: PV6210000 Component E,F, G: NA Component D contains DMSO. For <b>DMSO</b> Oral LD50 LD50 Oral - rat - 14,500 mg/kg Inhalation LC50 LC50 Inhalation - rat - 4 h - 40250 ppm Dermal LD50	
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<b>11.Toxicological Information</b> RTECS Number Toxicity Health Hazards	Component A.B,C: NA Component D: PV6210000 Component E,F, G: NA Component D contains DMSO. For <b>DMSO</b> 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 No data available	
<b>11.Toxicological Information</b> RTECS Number         Toxicity         Health Hazards         Potential Hazards	Component A.B,C: NA Component D: PV6210000 Component E,F, G: NA Component D contains DMSO. For <b>DMSO</b> 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 No data available None	
<b>11.Toxicological Information</b> RTECS Number         Toxicity         Health Hazards         Potential Hazards         Carcinogenicity:	Component A.B,C: NA Component D: PV6210000 Component E,F, G: NA Component D contains DMSO. For <b>DMSO</b> 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 No data available None No data available	
<b><u>11.Toxicological Information</u></b> RTECS Number	Component A.B,C: NA Component D: PV6210000 Component E,F, G: NA Component D contains DMSO. For <b>DMSO</b> 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 No data available None No data available EL) Data No data available	

**Component C:** water nazard class 1 (German Regulation): slightly nazardous 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 (fath	
LC50 - Oncorhynchus mykiss (rainbow trout) - 35	
	s. EC50 - Daphnia pulex (Water flea) - 27,500 mg/l
Toxicity to algae EC50 - Lepomis macrochirus (B	luegill) - > 400,000 mg/l - 96 h
Persistence and degradability	
No data available	
<b>Bioaccumulative potential</b>	
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	
<b>Component C:</b> Hand over to hazardous waste dis	nosers
<b>Component D:</b> For Dimethyl sulfoxide (DMSO)	
	mical incinerator equipped with an afterburner and scrubber. Offer
surplus and non-recyclable solutions to a licensed	
Contaminated packaging	uisposai company.
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	
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:	<b>Component D</b> : 261.33 8(d).
Response, Compensation, and Edubility Act.	Component E,F,G: N/A
US SARA Title III	Component A,B,C, E,F
US SARA THIE III	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	o-Know: Listed in t	Listed Listed Listed	onents <b>A, B, C, D,E,</b> under "Hazardous S under "Priority Pollu under "Toxic Pollut	ubstances": Not lis utants": Not listed	ted
Component A:	Component B:	Component C			Component E,F,G:
N/A	N/A	N/A	Pennsylvania Revision Date	2007 02 01	N/A
IN/A	IN/A	IN/A	New Jersey	2007-03-01	IN/A
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- DSL/NDSL	Not listed	Not listed	Not listed	Listed	Not listed
Canada- WHMIS classificati	on N/A	D2B	D2B	D2B	N/A
Canada- Canadian Ingredier Disclosure List	nt 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.