	Safet	y Data Sheet	(SDS)	
Revision Number: 1.1			\ /	updated: April 2015
1. Product and Compan	v Identification			
Product Name:	AnaTag	^{гм} HiLyte Fluor ^{тм} 647	Protein Labeling K	it
Manufacturer/Supplier:	34801 Ca Fremont,	, Inc. aspec.com ampus Drive , CA 94555 .791-9560		
		-791-9560 -791-9572		
		ervice@anaspec.com		
Catalog Number	AS-7204	· · · · · · · · · · · · · · · · · · ·		
Unit Size	1 kit	-		
2. Hazards Identificatio	n			
Oth GHS Health and Environ Con Con Con GHS Signal Words: Con Oth GHS Hazard Statements: Con Con	nponent D: Flammabl er Components: Not A <i>mental Hazards</i> nponent A: Not Applic nponent B and C: Irrita nponent D and E: Irrita nponent F and G:Not A mponent D: Warning er Components: Not A mponent A,B,C,F,G: M nponent D: H227 Cor nponent E: H303 May	Applicable cable ant to eyes ants to eyes and skin Applicable Applicable	ed.	
HMIS Classification:				
Component A:	Component B:	Component C:	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 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 Measures			
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 procedures:	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:	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 Measures

Containment and spill	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
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

Engineering controls	Component A,F and G: Not Applicable
	Component C: Facilities storing and using this material should be equipped with a safety
	shower and eyewash station.
	Component B: 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.
	<i>Eyes:</i> 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

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		
/apor Pressure:	Not determined		
/apor Density:	Not determined		
0.Stability and Reactivity			
Thermal Decomposition	Not applicable		
Dangerous Products of Decomposition	Not Applicable		
Dangerous Reactions	Applicable		
1.Toxicological Information			
RTECS Number	Component A.B,C: NA		
ALCS Number	Component D: PV6210000		
	Component E.F. G: NA		
Foxicity	Component E,F, G: NA Component D contains DMSO.		
Foxicity	Component E,F, G: NA Component D contains DMSO. For DMSO		
Foxicity	Component D contains DMSO. For DMSO Oral LD50		
Foxicity	Component D contains DMSO. For DMSO Oral LD50 LD50 Oral - rat - 14,500 mg/kg		
Foxicity	Component D contains DMSO. For DMSO Oral LD50 LD50 Oral - rat - 14,500 mg/kg Inhalation LC50		
Foxicity	Component D contains DMSO. For DMSO Oral LD50 LD50 Oral - rat - 14,500 mg/kg Inhalation LC50 LC50 Inhalation - rat - 4 h - 40250 ppm		
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	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	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 No data available		
Health Hazards Potential Hazards	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 No data available None		
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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 (fat	head minnow) - 34 000 mg/l - 96 h
LC50 - Oncorhynchus mykiss (rainbow trout) - 3	
	es. EC50 - Daphnia pulex (Water flea) - 27,500 mg/l
Toxicity to algae EC50 - Lepomis macrochirus (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	
	2900000
Component C: Hand over to hazardous waste dis Component D: For Dimethyl sulfavide (DMSO)	A
Component D: For Dimethyl sulfoxide (DMSO)	
	emical incinerator equipped with an afterburner and scrubber. Offer
surplus and non-recyclable solutions to a licensed	i disposal company.
Contaminated packaging	
Dispose of as unused product.	
<u>14. Transport Information:</u>	
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:	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
	Ensee under Cluss 2 Ozone Depictors. Not instea

		Listed	under "Priority Pollu under "Toxic Polluta		
<u>US States: Right-to-</u> Component A:	<u>Know: Listed in the</u> Component B:	Component C			Component E,F,G:
N/A	N/A	N/A	Pennsylvania Revision Date 20	007-03-01	N/A
N/A	N/A	N/A	New Jersey Revision Date 20	007-03-01	N/A
N/A	N/A	N/A	N/A		N/A
European/Internation	onal 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 classificatio	N/A	D2B	D2B	D2B	N/A
Canada- Canadian Ingredien Disclosure List	t 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.