Safety Data Sheet (SDS)

Revision Number: 1.1	Last updated: April 2015	
1. Product and Company Iden	tification_	
Product Name:	AnaTag™ AMCA-X Microscale 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-72056	
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:

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 C. Not Applicable
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
response	

Component A , F and G: Not Applicable

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

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 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

Component F and G: None

9. Physical and Chemical Properties	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		
pН	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: 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)	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

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:

US CERCLA (Comprehensive Environmental

Response, Compensation, and Liability Act:

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

Component A,B,C: N/A

Component D: 261.33 8(d). Component E,F,G: 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 303 components: N/A SARA 313 components: N/A SARA 312 components: N/A SARA 313 components: N/A SARA 312	E, F , G :	US SARA Title III:		_	Component A,B,C, E,F				
SARA 311/312 Hazards: N/A Component D SARA 302 components: N/A SARA 313 components: N/A SARA 313 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 Class 1 Ozone Depletors: Not listed Listed under Class 2 Ozone Depletors: Not listed Listed under Class 2 Ozone Depletors: Not listed Listed under "Hazardous Substances": Not listed Listed under "Friority Pollutants": Not listed Listed under "Toxic Pollutants": Not listed Listed under "Toxic Pollutants": Not listed Listed under "Toxic Pollutants": Not listed Listed under "Sates: Component A: Component B: Component C: Component D: Component E,F, N/A N/A N/A Revision Date 2007-03-01 N/A N/A N/A N/A N/A N/A N/A N/A N/A European/International Regulations: Component B Component C Component D Component E,F,	E, F , G :				SARA 302 components: 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 "Hazardous Substances": Not listed Listed under "Priority Pollutants": Not listed Listed under "Toxic Pollutants": Not listed List	E, F , G :			SARA 313 components: N/A					
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Listed under "Hazardous Substances": Not listed Listed under "Priority Pollutants": Not listed Listed under "Toxic Pollutants": Not listed Listed under "Toxic Pollutants": Not listed Listed under "Toxic Pollutants": Not listed Listed under "Toxic Pollutants": Not listed Component A: Component B: Component D: Component E,F, Pennsylvania N/A N/A N/A Revision Date 2007-03-01 N/A New Jersey N/A N/A N/A N/A N/A N/A N/A Puropean/International Regulations: Component B Component C Component D Component E,F,			Listed un	der Class 2 Ozone	Depletors: Not lis	ted			
Listed under "Priority Pollutants": Not listed Listed under "Toxic Pollutants": Not listed US States: Right-to-Know: Listed in the following States: Component A:		US Clean Water Act:							
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Component A: Component B: Component C: Component D: Component E,F,					Listed under "Priority Pollutants": Not listed				
Component A: Component B: Component C: Component D: Component E,F, N/A N/A N/A Revision Date 2007-03-01 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A European/International Regulations: Component B Component C Component D Component E,F,				Listed un	nder "Toxic Polluta	nts": Not listed			
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European/International Regulations: Component A Component B Component C Component D Component E,F,	E,F,G								
Component A Component B Component C Component D Component E,F,	E,F,G			N/A	N/A		N/A		
	E,F,G	European/Internation	ionai Regulations:						
EC EINICS		l .	Component A	Component B	Component C	Component D	Component E,F,G		
			Component A	37/4	N/A	200-664-3	N/A		
EC Risk statements N/A N/A N/A 36/37/38 N/A		EC EINICS	N/A						
WGK N/A N/A N/A 1 N/A			N/A			36/37/38	N/A		
Canada- Not listed Not listed Listed Not listed		EC Risk statements	N/A N/A	N/A	N/A				
DSL/NDSL		EC Risk statements WGK	N/A N/A N/A	N/A N/A	N/A N/A	1	N/A		

16. Other Information

WHMIS classification

Canadian Ingredient Disclosure List N/A

Not Listed

D2B

Not Listed

Canada-

Canada-

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.

D2B

Not Listed

D2B

Listed

N/A

Not Listed