	Safety Data She	et (SDS)	
Revision Number: 1.1		Last updated: April 2015	
) Product and Company Iden	ntification		
Product Name:	AnaTag [™] BPE 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-72112		
Unit Size	1 kit		

Component B Acute toxicity, Oral (Category 5)

> Skin irritation (Category 2) Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3)

Component G Flammable liquid (Category 2)

Other Components None

GHS Health and Environmental Hazards

Component A H316 Causes mild skin irritation

H320 Causes mild eye irritation

Component B Target organ effect, toxic by ingestion, irritant

Component C and F Irritant to eyes

Component G Irritant to eyes and skin

Other Components None

GHS Signal Words

Component A, B,G,I Warning **Other Components** None

GHS Hazard Statements:

H303 May be harmful if swallowed, H315 Causes skin irritation, Component B

H319 Causes serious eye irritation

Component G H227 Combustible liquid

Other Components None

GHS Precautionary Statements:

Component A P280 Wear Eye Protection

Component B P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation

persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before

reuse.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after

handling.

P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ eye protection/ face protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water. Remove contact lenses, if present

and easy to do. Continue rinsing.

Component I
Other Components

P280 Wear Eye Protection

HMIS Classification

None

Component A:	Component B:	Component C and F:	Component D and E:	Component G	Component H and I
Health hazard: 0	Health hazard: 2	Health hazard: 1	Health hazard: 0	Health hazard: 0	Health hazard: 0
Flammability: 0	Flammability: 1	Flammability: 1	Flammability: 0	Flammability: 0	Flammability: 0
Physical hazards: 0					

NFPA Rating

Component A:	Component B:	Component C and F:	Component D and E:	Component G	Component H and I
Health hazard: 0	Health hazard: 2	Health hazard: 1	Health hazard: 0	Health hazard: 0	Health hazard: 0
Fire: 0	Fire: 1	Fire: 1	Fire: 0	Flammability: 2	Flammability: 0
Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0	Physical hazards: 0	Physical hazards: 0

3) Composition / Information on Ingredients

Ingredients/Components:

Chemical Name:	Description	CAS Number:
Component A	Activated B-PE	NA
Component B	DTT	3483-12-3
Component C	Spin Column	NA
Component D	Wash tube	NA
Component E	Collection tube	NA
Component F	Gravity column	NA
Component G	DMSO	67-68-5
Component H	NEM(Lyophilised)	128-53-0
Component I	Reaction Buffer	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.

All Components

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.

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5) Fire Fighting Measure	e <u>s</u>				
Extinguishing media:		Component A and B : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			
		Component C and F: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.			
		Component G: For small fires, use alcohol resistant foam, dry chemical, or carbon			
		dioxide. For large fires, use water spray from a safe distance.			
		Component H: None			
		Component I: Use water spray, alcohol-resistant foam, dry chemical or carbon			
		dioxide.			
Special firefighting proceed	lures:	Component B: Wear self-contained breathing apparatus (SCBA) if necessary.			
		Component G: Fire fighters should wear positive pressure self-contained breathing			
		apparatus (SCBA) and full turnout gear.			
		Other components: None			
Unusual fire and explosion	ns hazards:	Component B: Hazardous carbon oxides and sulphur oxides formed under fire			
		conditions.			
		Component G: 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 Mo	<u>easures</u>				
Spill response	Compon	ent A and B: Keep in suitable, closed container for disposal. Do not let material enter			
	drains.				
		ent C and F: Wear protective equipment. Keep unprotected persons away.			
		ent D ,E and H: None			
		ent G: Avoid breathing vapors or mist. Remove all sources of ignition and provide			
absorbing let materia		n. Collect with an electrically protected vacuum cleaner, by wet-brushing, or by			
		with vermiculite, sand or earth, and place in appropriate container for disposal. Do not			
		al enter drains			
-		ent I: Keep in suitable, closed container for disposal. Do not let material enter drains.			
Containment		uitable, closed containers			
PPE	Gloves, la	ab coat, goggles			

7) Handling and Storage

Component A,B and I:

Handling: Avoid contact with skin and eyes.

Storage: Store in a tightly closed container in a dry place at -20C.

Component C and F:

Handling: Avoid contact with skin and eyes.

Storage: Store at room temperature

Component H:

Handling: Avoid contact with skin and eyes.

Storage: Store in a tightly closed container in a dry place at -20C.

Component G:

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 D and E:

Storage: Store at room temperature

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8) Exposure Controls	/ Personal Protection			
Engineering controls	All components: Facilities storing and using this material should be equipped with a safety shower			
	eyewash station. Adequa	ite ventilation should also be present.		
PPE	Wear goggles, gloves an	d lab coat when handling this product		
9) Physical and Chem	ical Properties			
Physical State	Liquid			
Odor	Not determined			
Solubility in Water	Soluble			
Specific Gravity	Not determined			
pH	Component I-7.3			
Boiling Point	Not determined			
Melting Point	Not determined			
Flash Point	Not determined			
Vapor Pressure:	Not determined			
Vapor Density:	Not determined			
10) Ctability and Dec	-4::4			
10) Stability and Read Thermal Decomposition		ble under recommended storage conditions		
*				
Dangerous Products o	*			
Dangerous Reactions	INO	dangerous reactions known.		
11) Toxicological Info	ormation_			
RTECS Number		Component B: EK1612000		
		Component G: PV6210000		
		Other Components: NA		
Toxicity		Component G: Oral LD50		
1		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		
YY 1.1 YY 1		Other Components: NA		
Health Hazards		May cause skin irritation.		
		May cause eye irritation.		
		May be harmful if inhaled.		
Potential Hazards		May be harmful if swallowed. Not identified		
		Not listed by NTP, IARC, or OSHA		
Carcinogenicity:	posure Limit (PEL) Data	Not identified Not identified		
OSHA Permissible Exp ACGIH Threshold Lim		Not identified Not identified		
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12) Ecological Information

Component C and F: 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 G:

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

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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

Consult local, state, or national regulations for proper disposal.

14) Transport Information

Hazard Class	This substance is considered to be non-hazardous for transport			
15. Regulatory information				
California Proposition 65:		None		
US TSCA (Toxic Substance Co	ntrol Act):	All components: Not listed		
US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act:		All components: Not listed		
US SARA Title III		Component A SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Chronic Health Hazard Component B SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Acute Health Hazard Component C ,D E ,F and H SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: N/A Component G SARA 302 components: N/A SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard Component I SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Chronic Health Hazard		

Revision Date 2007-03-01

N/A

US Clean Air Act:		All	All Components			
			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:		All	Components			
			ed under "Hazardous Substance	s": Not listed		
			ed under "Priority Pollutants":			
			ed under "Toxic Pollutants": No			
		Con	Component E			
			Listed under "Hazardous Substances": Listed			
			Listed under "Priority Pollutants": Not listed			
			Listed under "Toxic Pollutants": Not listed			
1		'				
US States: Right-	to-Know: Listed in the fol	llowing States:				
Component A:	Component B:	Component C and	F: Component D, E and H:	Component G		
	Pennsylvania					
Revision Date				Pennsylvania		
NA	CAS#16096-97-2	N/A	N/A	Revision Date 2007-03-01		
	New Jersey					
	Revision Date			New Jersev		

European/International Regulations:

N/A

CAS#16096-97-2

Massachusetts

N/A

N/A

NA

N/A

Еигореан/Пистиинови Кедишнов.						
	Component A	Component B	Component C and F	Component D, E	Component G	
	and I			and H		
EC EINICS	NA	240-263-0	N/A	NA	200-664-3	
EC Risk statements	NA	36/37/3822	N/A	NA	36/37/38	
WGK	NA	N/A	1	NA	1	
Canada-	Not Listed	Not Listed	Not listed	Not Listed	Listed	
DSL/NDSL						
Canada-	NA	D1B, D2B	D2B	NA	D2B	
WHMIS classification						
Canada-	Not Listed	Not listed	Not Listed	Not Listed	Listed	
Canadian Ingredient						
Disclosure List						

N/A

N/A

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.