Last undated: April 2015

Safety Data Sheet (SDS)

Product Name:	Cancel vita® I uminogeant Albeline Dheenhotege Agger Vit		
1 roduci rame.	SensoLyte® Luminescent Alkaline Phosphatase Assay Kit		
	Luminometric		
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-72122		
Unit Size	1 kit		

2. Hazards Identification

Ravisian Number: 11

Emergency Overview:

GHS Hazard Classification:

GHS Physical Hazards

Component A, B, C and D: Not flammable or combustible.

Component E: Corrosive(Category 1A)

GHS Health and Environmental Hazards

Component A: Irritant to skin (Category 3) Component B and C: Irritant to eyes and skin

Component D: Irritant to eyes and skin, Acute toxicity, oral

Component E: Serious eye damage (Category 1)

GHS Signal Words:

Component A: Warning

Component B and C: Not applicable

Component D and E: Danger

GHS Hazard Statements:

Component A: H316 Causes mild skin irritation.

Component B and C: Not applicable

Component D: H302 Harmful if swallowed.

H316 Causes mild skin irritation. H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Component E: H314 Causes severe skin burns and eye damage

GHS Precautionary Statements:

Component A,B and C: None

Component D: P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Component E: - P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 .Immediately call a POISON CENTER or doctor/physician.

HMIS Classification:

Component A: Component B: Con		Component C:	Component D:	Component E:
Health hazard: 2	Health hazard: 0	Health hazard: 0	Health hazard: 2	Health hazard: 3
Flammability: 0	Flammability: 0	Flammability: 0	Flammability: 1	Flammability: 0
Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 1
				•

NFPA Rating:

Component A:	Component B:	Component B: Component C: Component D:		Component E:	
Health hazard: 2	Health hazard: 0	Health hazard: 0	Health hazard: 2	Health hazard: 3	
Fire: 0	Fire: 0	Fire: 0	Fire: 1	Fire: 0	
Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 1	

3. Composition / Information on Ingredients

ngredients/Components:

Chemical Name:	Description	CAS Number:		
Component A	Proprietary	NA		
Component B	Proprietary	NA		
Component C	Proprietary(contains 2 mM sodium azide)	NA		
Component D	Triton X-100	9002-93-1		
Component E	Proprietary	1310-73-2		

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,B and C

Inhalation: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Skin: In case of contact, immediately wash skin with soap and copious amounts of water.

Eyes: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Component D

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin: Wash off with soap and plenty of water. Consult a physician

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Component E

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a

physician.

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes

during transport to hospital.

5.Fire Fighting Measures				
Extinguishing media:	Component A, B, C and D: Water, Foam, Dry chemical, CO2.			
	Component E: Use water spray, alcohol resistant foam, dry chemical, or			
	carbon dioxide			
Special firefighting procedures:	Component A: Use respirator and protective clothing. Toxic fumes could be			
	emitted when water is evaporated with fire.			
	Component B: Not applicable			
	Component C: Not applicable			
	Component D and E: Wear self-contained breathing apparatus (SCBA) if			
	necessary.			
Unusual fire and explosions	Component A, B and C: Not applicable			
hazards:	Component B: Not Applicable			
	Component D : Hazardous decomposition products formed under fire			

conditions - Carbon oxides

conditions - Sodium oxides

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

6. Accidental Release Measures

Consult a physician.

Containment and spill	Component A, B and C: Contain spill, then clean up with copious amounts of soap
response	and water. Avoid contact with skin or clothing.
	Component D and E: Avoid breathing vapors, mist or gas. Ensure adequate
	ventilation. Evacuate personnel to safe areas
PPE	Use personal protective equipment

Component E: Hazardous decomposition products formed under fire

7. Handling and Storage

Component A:

Handling: Keep container tightly closed in a dry and well-ventilated place.

Storage: Keep tightly closed. Store at 2-8°C

Component B:

Handling: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage: Recommended storage temperature: 2 - 8 °C

Component C:

Handling: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage: Recommended storage temperature: 2 - 8 °C

Component D:

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Storage: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Component E:

Handling: Avoid inhalation of vapor or mist.

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		ed in a dry and well-ventilated place. Containers which are opened must be			
carefully resealed a	and kept upright to	prevent leakage.			
8. Exposure Cont	rols / Personal Pr	otection			
Engineering controls		Safety shower and eye bath. Mechanical exhaust required.			
		C and D: Contains no substances with occupational exposure limit values.			
	Component E: Use only with adequate ventilation. If user operations generate dust,				
		mist, use process enclosures, local exhaust ventilation or other engineering			
		controls to keep worker exposure to airborne contaminants below any recommended or			
	statutory limits.	<u>. </u>			
PPE	Wear goggles,	gloves and lab coat when handling this product.			
9. Physical and Cl	hemical Propertion	-			
Physical State		Liquid			
Odo		Not determined			
Solubility in Water	•	Soluble			
Specific Gravity		Not determined			
pН		Component B:7.4			
Boiling Point		Not determined			
Melting Point		Not determined			
Flash Point		Not determined			
Vapor Pressure:		Not determined			
Vapor Density:		Not determined			
10.Stability and R	<u>Reactivity</u>				
Thermal Decompos	sition	Not applicable			
Dangerous Produc	ets of	Not Applicable			
Decomposition	is oj	Not Applicable			
Dangerous Reaction	ins	Not Applicable			
		Not Applicable			
11.Toxicological I	<u>nformation</u>	C (A D C LE NA			
RTECS Number		Component A,B,C and E: NA			
T:-		Component D: MD0907700			
Toxicity		Component A, B and C: Not available			
		Component D: Oral LD50			
		LD50 Oral - rat - female - 707 mg/kg			
		LD50 Oral - rat - male - 500 mg/kg			
		Inhalation LC50			
		no data available			
		Dermal LD50			
		LD50 Dermal - rabbit - 8,000 mg/kg			
		Other information on acute toxicity			
		no data available			
		Component E:			

Page 5 of 8 Dermal LD50: Corrosive Oral LD50: 400 mg/kg (rabbit) LDLo [PB 234-899 1974] Inhalation LC50: Corrosive TARGET ORGANS: Skin, eyes, mucous membranes Acute effects from overexposure: Sodium hydroxide is corrosive and may produce severe eye, skin and respiratory tract irritation and upper gastrointestinal tract damage. Ingestion of concentrated solutions has caused death in animals and humans. [Gosselin, Smith & Hodge, 1984; PB 234-899 1974] Chronic effects from overexposre: Sodium hydroxide may produce inflammation of the eyes, skin, and mucous membranes. Esophageal carcinoma at the site of a chronic lye stricture has been reported. (Gosselin, Smith & Hodge 1984) Health Hazards No data available Potential Hazards **Potential Health Effects** Component A,B,C and D: Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. Ingestion: May be harmful if swallowed. Skin: May be harmful if absorbed through skin. May cause skin irritation. Eyes: May cause eye irritation

Component E: Inhalation: May be harmful if inhaled. Material is extremely destructive

to the tissue of the mucous membranes and upper respiratory

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns. Causes severe eye burns.

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

Inhalation of vapors may cause:, spasm, inflammation and edema of the bronchi, spasm, inflammation and edema of the larynx, Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

Carcinogenicity: N/A

OSHA Permissible Exposure Limit(PEL) Data No data available

ACGIH Threshold Limit Values (TLV) No data available

12. Ecological Information

Component A,B and C: No data available

Component D

Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 8.9 mg/l - 96.0 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia - 26 mg/l - 48 h

Persistence and degradability

Biodegradability Biotic/Aerobic Biochemical oxygen demand

Result: 36 % - Not readily biodegradable.

Method: Closed Bottle test **Bioaccumulative potential**

no data available **Mobility in soil** no data available

PBT and vPvB assessment

no data available

Other adverse effects

Chemical Oxygen Demand (COD)

2.19 mg/g

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Component E

Toxicity

Bluegill sunfish: 48-hour LC50 = 99 mg/L Mosquito fish: 96-hour LC50 = 125 mg/L

Brown shrimp (Crangon crangon): 48-hour LC50 = 30 - 100 mg/L

13. Disposal Considerations

Component A, B, C and D: Offer surplus and non-recyclable solutions to a licensed disposal company.

Component E: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product

14. Transport Information:				
UN Number	3316			
Hazard Class	9			
Identification Number	N/A			
Packing Group	III			
Proper Shipping Name (DOT)	Chemical kit			

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15. Regulatory inf	<u>Cormation</u>			Page / of 8		
California Proposi	tion 65:	None				
US TSCA (Toxic Substance Control Act):		Not listed	Not listed			
	prehensive Environmental sation, and Liability Act)	Not listed	Not listed			
US SARA Title III		Component A: SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Acute Health Hazard Component B and C 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: Acute Health Hazard Component E SARA 302 components: N/A SARA 313 components: N/A SARA 313 components: N/A SARA 313 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Acute Health Hazard				
US Clean Air Act:		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				
US Clean Water Act:		Components A, B, C, D and E Listed under "Hazardous Substances": Not listed Listed under "Priority Pollutants": Not listed Listed under "Toxic Pollutants": Not listed				
	o-Know: Listed in the follo					
Component A:	Component B: Pennsylvania	Component C: Pennsylvania	Component D: Pennsylvania Revision Date	Component E: Pennsylvania		
NA	Revision Date: NA	2 22210 52 1 41114	:NA	Revision Date: NA		
NA	New Jersey Revision Date: NA	New Jersey	New Jersey Revision Date: NA	New Jersey Revision Date: NA		
NA	NA	NA	NA	Massachusetts Revision Date 2007-03-01		

European/International Regulations:

European/International Regulations.					
	Component A	Component B	Component C	Component D	Component E
EC EINICS	N/A	N/A	N/A	N/A	215-185-5
EC Risk statements	N/A	N/A	N/A	N/A	35
WGK	1	1	1	1	1
Canada-	Not Listed	Not listed	Not listed	Listed	Listed
DSL/NDSL					
Canada-	N/A	N/A	N/A	D2B	Е
WHMIS					
classification					
Canada-	N/A	Listed	Listed	Listed	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.