Safety Data Sheet (SDS)

Revision Number: 1.1	Last updated: April 2015
	I
1. Product and Company Ider	
Product Name:	SensoLyte® pNPP Secreted Alkaline Phosphatase Reporter Gene
	Assay*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-72145
Unit Size	1 kit
2. Hazards Identification	
Emergency Overview:	
<u>Emergency Overview.</u> GHS Hazard Classification	и.
GHS Physical Hazards	п.
•	ent A, B, C and D: Not flammable or combustible.
Compone	
GHS Health and Environn	
	ent A: Irritant to skin (Category 3)
	ent B and C: Irritant to eyes and skin
-	ent D: Irritant to eyes and skin, Acute toxicity, oral
-	ent E: Serious eye damage (Category 1)
GHS Signal Words:	on E. Serious eye damage (Category 1)
	ent A: Warning
	ent B and C: Not applicable
	ent D and E: Danger
GHS Hazard Statements:	2. 2 d. 2
	ent A: H316 Causes mild skin irritation.
-	ent B and C: Not applicable
	ent D: H302 Harmful if swallowed.
r	H316 Causes mild skin irritation.
	H318 Causes serious eye damage.
	H411 Toxic to aquatic life with long lasting effects.
Compon	
GHS Precautionary Staten	
	ent A,B and C: None
compon	· · · · · · · · · · · · · · · · · · ·

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:	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 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

Ingredients/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.

pirysician.

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

during transport to hospital.

<i>Ingestion</i> : Do NOT induce vomiting. Never give anything by mouth to an unconscious p	person. Rinse mouth with water.
Consult a physician.	

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
	Component E: Hazardous decomposition products formed under fire
	conditions Sodium oxides

6. Accidental Release Measures

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	Wear goggles, gloves and lab coat

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 and 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.

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.

		Page 4 of 7
8. Exposure Conti	rols / Personal P	rotection
Engineering controls		: Safety shower and eye bath. Mechanical exhaust required.
		c. C and D: Contains no substances with occupational exposure limit values.
		Use only with adequate ventilation. If user operations generate dust,
		or mist, use process enclosures, local exhaust ventilation or other engineering
		ep worker exposure to airborne contaminants below any recommended or
	statutory limits	
PPE		gloves and lab coat when handling this product.
0 Physical and Cl	amical Properti	lag.
9. Physical and Cl	iemicai Properu	
Physical State		Liquid
Odo		Not determined
Solubility in Water		Soluble
Specific Gravity		Not determined
pH		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>eactivity</u>	
Thermal Decompos	sition	Not applicable
Dangerous Produc	ts of	Not Applicable
Decomposition		
Dangerous Reactio		Not Applicable
11.Toxicological I	<u>nformation</u>	
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:
		Dermal LD50: Corrosive
		Oral LD50: 400 mg/kg (rabbit) LDLo [PB 234-899 1974]
		Inhalation LC50: Corrosive

	Page 5 of 7
	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
	tract.
	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	No data available
Limit(PEL) Data	
ACGIH Threshold Limit Values (T	TLV) No data available
12.Ecological Information	
Component A,B and C: No data availal	ble
Component D	
Toxicity	
Toxicity to fish LC50 - Pimephales pron	nelas (fathead minnow) - 8.9 mg/l - 96.0 h
Toxicity to daphnia and other aquatic inv	vertebrates

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
Rluegill sunfis

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:

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

15. Regulatory information

California Proposition 65:	None
US TSCA (Toxic Substance Control Act):	Not listed
US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)	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 311/312 Hazards: Acute Health Hazard

Toll-Free: 800-452-5530 • Tel: 510-791-9560 • Fax: 510-791-9573

Page 7 of 7

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
TIC Co. C. D. L. C. Z. L. C. L. L. C. L. C	

US States: Right-to-1	Know: Listed in the following St	tates:			
Component A:	Component B:	Component C:	Component D:	Component E:	
	Pennsylvania	Pennsylvania	Pennsylvania	Pennsylvania	
NA	Revision Date: NA		Revision Date :NA	Revision Date: NA	
	New Jersey	New Jersey	New Jersey Revision	New Jersey	
NA	Revision Date: NA		Date: NA	Revision Date: NA	
				Massachusetts	
				Revision Date	
NA	NA	NA	NA	2007-03-01	

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	NA	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.