Safety Data Sheet (SDS)

Revision Number.	: 1.1	Last updated: May 2015						
1. Product and C	Company Identification							
Product Name:	SensoLyte	SensoLyte® 520 Neprilysin Activity Assay Kit * Fluorimetric*						
Manufacturer/Sup	pplier: AnaSpec, 1	Inc.						
	www.anas	pec.com						
	34801 Can	npus Drive						
	Fremont, C	CA 94555						
	Tel: 510-7	91-9560						
	Fax: 510-7	791-9572						
	Email: ser	vice@anaspec.com						
Catalog Number	AS-72223							
Unit Size	1 kit							
2. Hazards Ident	tification							
Emergency Overv	view:							
GHS Hazard Clas								
GHS Physical Ha		liquid (Catagory 1)						
	Component A: Flammable Component B: Flammable							
	Component C: Not Applica							
	Component D: Not Applica							
	Component E: Flammable							
	Component E. Planinable	nquid (Category 4)						
GHS Health and	Environmental Hazards							
	Component A: Irritant to ey	es and skin						
	Component B: Irritant to ey							
	Component C: Irritant to ey							
	Component D: Irritants to e							
	Component E: Irritants to ey							
GHS Signal Word	ds:							
	Component A: Warning							
	Component B: Warning							
	Component C: Danger							
	Component D: Danger							
	Component E: Warning							
GHS Hazard Stat	rements:							
	Component A: H227 Comb	bustible liquid						
	Component B: H227 Comb	•						
	Component C: H302 Harm							

Component D: H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Component E: Combustible liquid

GHS Precautionary Statements:

Component A: - None Component B: - None Component C: - None Component D: -None Component E: -None

HMIS Classification:

Component A:	Component B:	Component C:	Component D:	Component E:
Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 0
Flammability: 2	Flammability: 2	Flammability: 0	Flammability: 0	Flammability: 2
Physical hazards:	Physical hazards:	Physical hazards:	Physical hazards:	Physical hazards:
0	0	0	0	0

NFPA Rating:

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

3. Composition / Information on Ingredients

Ingredients/Components:

Chemical Name:	Description	CAS Number:	
Component A	Contains DMSO	67-68-5	
Component B	Contains DMSO	67-68-5	
Component C	Solution	N/A	
Component D	Solution	N/A	
Component E	Contains ethanol	64-17-5	

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

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 B

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 C

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. Consult a

physician.

Skin: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Eyes: Flush eyes with water as a precaution.

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: 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.

5. Fire Fighting Measures

Extinguishing media:	
	Component A, B, and E: For small fires, use alcohol resistant foam, dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance.
	Component C, and D: Not applicable.
Special firefighting procedures:	Component A, B, and E: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Component C, and D: Not applicable.
Unusual fire and explosions hazards:	Component A, B, and E: 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.
	Component C, and D: Not applicable.

6. Accidental Release Measures

Containment and spill response	Component A, B, and E: 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, and D: Not applicable.
PPE	Use personal protective equipment

7. Handling and Storage

Component A, B, and E

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 C, and D: Not applicable.

8. Exposure Controls /Personal Protection

Engineering controls | Component A, B, and E: Facilities storing and using this material should be equipped

		shower and eyewash station. Adequate ventilation should also be present. C, and D: Not applicable.					
PPE	Respiratory Sy 1910.134 and a whenever work Skin and Body exposure. Hands: Use ch used to remove Eyes: Wear ch	Component A, B, and E 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 C, and D: Not applicable.					
	nd Chemical Properti	<u>ies</u>					
Physical State		Components are liquids,					
Odo		Not determined					
Solubility in Wat		Soluble Not determined					
Specific Gravity							
pH		Component A, Not applicable					
		Component B, no data available					
		Component C - 7.4					
		Component D -7.4					
		Component E no data available					
Boiling Point		Not determined					
Melting Point		Not determined					
Flash Point		Not determined					
Vapor Pressure:		Not determined					
Vapor Density:		Not determined					
10.Stability ar	nd Reactivity						
Thermal Decom	position	Not applicable					
Dangerous Products of Decomposition		Not Applicable					
Dangerous Reactions		Not Applicable					
11.Toxicolog	ical Information						
RTECS Number		Component A: PV6210000					
		Component B: PV6210000					
		Component C: N/A					
		Component D: N/A					

	Component E: KQ6300000				
Toxicity	For Component A and B contain Dimethyl sulfoxide (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	Potential Health Effects				
	Inhalation May be harmful if inhaled. Causes respiratory tract				
	irritation.				
	Ingestion Harmful if swallowed.				
	Skin Harmful if absorbed through skin. Causes skin irritation.				
	Eyes Causes eye irritation.				
	Aggravated Medical Condition: Avoid contact with DMSO solutions				
	containing toxic materials or materials with unknown toxicological				
	properties. Dimethyl sulfoxide (DMSO) is readily absorbed through				
	skin and may carry such materials into the body.				
Carcinogenicity:	No data available				
OSHA Permissible Exposure Limit (PEL) Data	No data available				
ACGIH Threshold Limit Values (TLV) No C	lata available				
12. Ecological Information					

For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (Component A, and B contain DMSO)

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

For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (Components A, and B) and for Ethanol CAS-No. 64-17-5 (Component E)

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:

*	
UN Number	N/A
Hazard Class	N/A
Identification Number	N/A
Packing Group	N/A
Proper Shipping Name (DOT)	N/A

5. Regulatory information					
California Proposition 65:	Not listed				
US TSCA (Toxic Substance Control Act):	Component A: Listed Component B: Listed Component C: Not Listed Component D: Not listed Component E: Not listed				
US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act:	Component A: Not listed. Component B: Not listed Component C: Not listed Component D: Not listed Component E: Not listed				
US SARA Title III	Component A SARA 302 components: N/A SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard Component SARA 302 components: N/A SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard Component B SARA 302 components: N/A SARA 313 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard Component SARA 302 components: N/A SARA 313 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard Component C SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard Component D SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard Component E SARA 302 components: N/A SARA 313 components: N/A				

US Clean Air Act:				Component A, B, C, D, E, Listed under Hazardous Air Pollutants: Not listed Listed under Class 1 Ozone Depletors: Not listed Listed under Class 2 Ozone Depletors: Not listed						
			Components A, B, C, D, E, Listed under "Hazardous Substances": Not listed Listed under "Priority Pollutants": Not listed Listed under "Toxic Pollutants": Not listed							
US States: Right-to-K	now: Listed in the	e follo	wing States.	•						
Component A:	Component B:		Componen	t C:	Comp	onent D:	Comp	oonent E:		
Pennsylvania Revision Date 2007-03- 01	Pennsylvania Revision Date 20 03-01	007-	N/A	N/		N/A				
New Jersey Revision Date 2007-03- 01	New Jersey Revision Date 20 03-01	007-	N/A		N/A		N/A			
Massachusetts	N/A		N/A		N/A		N/A			
European/Internation	nal Regulations									
Laropean/Internation	Component A	Co	mponent B	Compo	nent C	Compo	nent D	Component E		
EC EINICS	200-664-3	200)-664-3	N/A		N/A		N/A		
EC Risk statements	36/37/38		37/38	N/A		N/A		N/A		
WGK	1	1		N/A		N/A		N/A		
Canada- DSL/NDSL	Not listed	Not	listed	Not listed		Not listed		Not listed		
Canada- WHMIS classification	D2B	D21		N/A		N/A		N/A		
Canada- Canadian Ingredient Disclosure List	Listed	List	ted	Not Listed		Not Listed		Not Listed		

16. Other Information

It is not intended for food, drug, and 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.