Safety Data Sheet (SDS)

Revision Number: 1.1	Last updated: A	pril 2015
1. Product and Company Ider	tification	
Product Name:	SensoLyte® HAT (p300) Activity Assay Kit *Fluorimetric*	
Manufacturer/Supplier:	AnaSpec, Inc.	
J	www.anaspec.com	
	34801 Campus Drive	
	Fremont, CA 94555	
	Tel: 510-791-9560	
	Fax: 510-791-9572	
	Email: service@anaspec.com	
Catalog Number	AS-72172	
Unit Size	1 kit	
2. Hazards Identification		
Emergency Overview: GHS Hazard Classification:		
GHS Physical Hazards		
	ent A: Not Applicable	
-	ent B: Not Applicable	
-	ent C: Not Applicable	
-	ent D: Not Applicable	
-	ent E: Not Applicable	
_	ent F: Flammable liquid (Category 4)	
	ent G: Flammable liquid (Category 4)	
Compone	ent H: Flammable liquid (Category 4)	
Compone	ent I: Not Applicable	
GHS Health and Environmenta	! Hazards	
Compone	ent A: Irritant to eyes and skin	
-	ent B: Irritant to eyes and skin	
Compone	ent C: Irritant to eyes and skin	
	ent D: Irritant to eyes and skin	
-	ent E: Irritant to eyes and skin, Acute toxicity, oral	
1	ent F: Irritant to eyes and skin	
	ent G: Irritant to eyes and skin	
	ent H: Irritant to eyes and skin	
	ent I: Irritant to eyes and skin	
GHS Signal Words:		
	ent A: Not Applicable	
<u>-</u>	ent B: Not Applicable	
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Component C: Not Applicable Component D: Not Applicable

Component E: Not Applicable

Component F: Warning
Component G: Warning
Component H: Warning
Component I: Not Applicable

GHS Hazard Statements:

Component A: Not Applicable Component B: Not Applicable Component C: Not Applicable Component D: Not applicable Component E: Not applicable

Component F: H227 Combustible liquid Component G: H227 Combustible liquid Component H: H227 Combustible liquid

Component I: Not applicable

GHS Precautionary Statements:

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

Component F: - P281 Use personal protective equipment as required. Component G: - P281 Use personal protective equipment as required. Component H: - P281 Use personal protective equipment as required.

Component I: - None

HMIS Classification:

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

NFPA Rating:

Component						Componen		
A:	Component B:	Component C:	Component D:	Component E:	Component F:	t G	Component H:	Component I
Health hazard:	Health	Health hazard:	Health hazard:					
0	0	0	0	0	0	hazard: 0	0	0
Fire: 0	Fire: 2	Fire: 2	Fire: 2	Fire: 0				
Reactivity	Reactivity	Reactivity	Reactivity	Reactivity	Reactivity	Reactivity	Reactivity	Reactivity
hazard: 0	hazard: 0	hazard: 0	hazard: 0					

3. Composition / Information on Ingredients

7	7.	10	
Ingre	dients	$\mathcal{L}(Com)$	ponents:

Chemical Name:	Description	CAS Number:
Component A	Proprietary	NA
Component B	Proprietary	NA
Component C	Proprietary	NA
Component D	Proprietary	NA
Component E	Proprietary	NA
Component F	Contains DMSO	67-68-5
Component G	Contains DMSO	67-68-5
Component H	Contains Isopropyl Alcohol	67-63-0
Component I	Proprietary	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

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. *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 D

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. Consult a physician.

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

Component E

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. Consult a physician.

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

Component F

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 G

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 H

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 I

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 F, G, and H: For small fires, use alcohol resistant foam, dry
	chemical, or carbon dioxide. For large fires, use water spray from a safe
	distance.
	Component A, B, C, D, E, and I: Use extinguishing measures that are
	appropriate to local circumstances and environment.
Special firefighting procedures:	Component F, G, and H: Fire fighters should wear positive pressure self-
	contained breathing apparatus (SCBA) and full turnout gear.
	Component A, B, C, D, E, and I: Wear self-contained breathing apparatus
	(SCBA) if necessary.
Unusual fire and explosions hazards:	Component F, G, and H: 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 A, B, C, D, E, and I: None
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6. Accidental Release Measures

Containment and spill	Component F, G, and H: Immediately contact emergency personnel. Prevent further
response	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 A, B, C, D, E, and I: Do not let material enter drains. Keep in suitable,
	closed containers for disposal.

PPE	Use personal protective equipment	
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7. Handling and Storage

Component F, G, and H:

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 A, B, C, D, E, and I:

Handling: Avoid contact with eyes and skin.

Storage: Store in a tightly closed container away from moisture. Use well-ventilated place.

8. Exposure Controls / Personal Protection

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Engineering controls	Component F, G, and H: Facilities storing and using this material should be equipped
	with a safety shower and eyewash station. Adequate ventilation should also be present.
	Component A, B, C, D, E, and I: Not applicable.
PPE	Component F, G, and H:
	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 A, B, C, D, E, and I:
	Respiratory System: Respiratory protection is not required.
	Skin and Body: Wear appropriate work uniform or laboratory coat.
	Hands: Use gloves. Appropriate techniques should be used to remove potentially
	contaminated gloves.
	Eyes: Wear chemical splash goggles.

9. Physical and Chemical Properties

Physical State	Liquid
Odo	Not determined
Solubility in Water	Soluble
Specific Gravity	Not determined
рН	Component E - 7.9
Boiling Point	Not determined

Melting Point	Not determined				
Flash Point	Not determined				
Vapor Pressure:	Not determined				
Vapor Density:	Not determined				
1 2	That 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: NA				
	Component B: NA				
	Component C: NA				
	Component D: NA				
	Component E: NA				
	Component F: PV6210000				
	Component G: PV6210000				
	Component H: NA				
n • • •	Component I: NA				
Toxicity	Component F, and Component G contain DMSO.				
	For DMSO (Dimethyl sulfoxide) 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				
	Component C				
	Oral LD50 – N/A				
	Inhalation LC50 – N/A				
	Dermal LD50 – N/A				
	Serious eye damage/eye irritation				
	Eyes – rabbit – mild eye irritation				
	Component H contains Isopropyl Alcohol				
	Oral LD50 - rat – 2,735 mg/kg				
	Inhalation LC50 - rat - 16000 ppm				
	Dermal LD50 - rabbit – 12,800 mg/kg				
Health Hazards	No data available				
Potential Hazards	Potential Health Effects				
	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				
	Aggravated Medical Condition: Avoid contact with DMSO solutions				

	properties. Dimethyl sulfoxide is readily absorbed through skin and may carry such materials into the body.
Carcinogenicity:	No data available
OSHA Permissible Exposure Limit(PEL)	No data available
Data	
ACGIH Threshold Limit Values (TLV)	No data available

12. Ecological Information

For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (Component **F**, and **G** 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

For Component H contains Isopropyl Alcohol CAS –No. 67-63-0

Toxicity

Toxicity to Fish Acute EC50 10,000 mg/L – 48 h.

13. Disposal Considerations

For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (Component F, and G) and Isopropyl Alcohol CAS-No. 67-63-0 Component H)

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	3316
Hazard Class	9
Identification Number	N/A
Packing Group	II
Proper Shipping Name (DOT)	Chemical Kit

California Proposition 65:	N/A
US TSCA (Toxic Substance Control Act):	Component A: Not Listed
DS 15CA (Toxic Substance Control Act).	
	Component B: Not Listed
	Component C: Not listed
	Component D : Not listed
	Component E: Not listed
	Component F: Listed
	Component G: Listed
	Component H: Listed
	Component I: Not listed
US CERCLA (Comprehensive Environmental Response,	Component A: Not listed
Compensation, and Liability Act:	Component B: Not listed
compensation, and Lincolny Her.	Component C: Not listed
	Component D : Not listed
	Component E: Not listed
	Component F: 261.33 8(d)
	Component G: 261.33 8(d)
	Component H: Not listed
	Component I: Not listed
JS SARA Title III	Component A
	SARA 302 components: N/A
	SARA 313 components: N/A
	SARA 311/312 Hazards: N/A
	Component B
	SARA 302 components: N/A
	SARA 313 components: N/A
	SARA 311/312 Hazards: N/A
	Component 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: N/A
	Component E
	SARA 302 components: N/A
	SARA 313 components: N/A
	SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard
	,
	Component F
	SARA 302 components: N/A
	SARA 313 components: N/A
	SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard
	Component G
	SARA 302 components: N/A
	SARA 313 components: N/A
	SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard
	Component H
	SARA 302 components: N/A
	SARA 302 components: N/A SARA 313 components: N/A

				SARA 311/312 Hazards: N/A Component I SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: N/A									
US Clean Water Act:					Component A, B, C, D, E, F, and G 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, F, and G Listed under "Hazardous Substances": Not listed Listed under "Priority Pollutants": Not listed Listed under "Toxic Pollutants": Not listed								
		•	Listed in the fo										
Component A:	Com B:	ponent	Component C:	Component D:	Component E:	1 -		Compos G:	Component			Component I:	
						Pennsylva a Revision Date 2007 03-01 CAS-No	n 7-	Pennsyl a Revis Date 20 03-01 CAS-N	ion 107-	H:			
NA	NA		NA	NA	NA	New Jerse Revision Date 2007 03-01 CAS-No	7-	New Jest Revision Date 20 03-01 CAS-N	n 007-	NA		NA	
NA	NA 1		NA	NA	NA	68-5	0,	68-5		NA		NA	
N/A	N/A		N/A	NA	NA	Massachu ts N/A			Massachuset ts N/A		NA		
					ı	L				NA	1		
European/In		ional Reg Component A		Component C	Component D	Component E		nponent F	Compo		Compone nt H	Component	
EC EINICS	N	I/A	N/A	N/A	N/A	N/A	200)-664-3	200-6	564-3	N/A	N/A	
EC Risk statements	sk N/A		N/A	N/A	N/A	N/A	36/	/37/38 36/37			N/A	N/A	
WGK 1			1	1	1	1	1		1		1	1	
Canada- DSL/NDSL			Not Listed NA	Not listed	Not listed NA	Not Listed NA			lis		Not listed NA	Not listed NA	
	nada- NA HMIS ssification			NA									

Canada-	Not Listed	Not Listed	Not listed	Not Listed	Not	Listed	Listed	Not	Not
Canadian					Listed			Listed	Listed
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.