Safety Data Sheet (SDS)

Revision Number	: 1.1	Burety	Last updated: April 2015	
1. Product and (Company Identification	<u>1</u>	,	
Product Name:		SensoLyte [©]	390 ACE2 Activity Assay Kit *Fluorimetric*	
Manufacturer/Su	pplier:	AnaSpec, Ir	nc.	
		www.anasp	ec.com	
		34801 Cam	pus Drive	
		Fremont, C.	A 94555	
		Tel: 510-79	1-9560	
		Fax: 510-79	91-9572	
		Email: serv	ice@anaspec.com	
Catalog Number		AS-72086		
Unit Size		1 kit		
2. Hazards Iden				
Emergency Over				
GHS Hazard Cla				
GHS Physical Ho		Elammahla 1	iquid (Category 4)	
	-			
		Flammable liquid (Category 4) Acute toxicity, Oral (Category 5) Acute toxicity, Inhalation (Category 5),		
Component C:		Skin irritation (Category 3), Eye irritation (Category 2B)		
		Flammable liquid (Category 4)		
	Component E: N			
	Component E. P	чот аррпсао		
GHS Health and	Environmental Hazards			
	Component A: Ir		s and skin	
	Component B: Ir	•		
			s and skin, acute toxicity, oral and by inhalation	
	Component D: Ir			
	Component E: Ir	•		
GHS Signal Word	1	3		
	Component A: V	Warning		
	Component B: V	Warning		
	Component C: V			
	Component D: V	Warning		
	Component E: V	Varning		
GHS Hazard Stat				
	Component A: I		• • • • • • • • • • • • • • • • • • •	
	Component B: I			
			3 May be harmful if swallowed or if inhaled, H316 Causes	
		<u>mild skin irr</u>	itation, H320 Causes eye irritation	

Component D: H227 Combustible liquid

Component E: H303 May be harmful if swallowed.

H319 Causes serious eye irritation. H402 Harmful to aquatic life.

GHS Precautionary Statements:

Component A: - P281 Use personal protective equipment as required. Component B: - P281 Use personal protective equipment as required.

Component C: 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 D: - P281 Use personal protective equipment as required.

Component E: P264 Wash skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water.
Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container to an approved waste disposal plant.

HMIS Classification:

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

NFPA Rating:

Component A:	Component B:	Component C:	Component D:	Component E:	
Health hazard: 0	Health hazard: 0	Health hazard: 1	Health hazard: 0	Health hazard: 1	
Fire: 2	Fire: 2	Fire: 0	Fire: 2	Fire: 0	
Reactivity hazard: 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	Proprietary	NA	
Component D	Contains DMSO	67-68-5	
Component E	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. Consult a physician.

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

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

5. Fire Fighting Measures

Extinguishing media:		Component A, B, and D: For small fires, use dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance. Component C and E: Use water spray, dry chemical or carbon dioxide.		
Special firefighting procedures:		Component A, B, and D: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Component C and E: Wear self-contained breathing apparatus (SCBA) if necessary.		
Unusual fire and explosions hazards:		Component A, B, and D: 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 E: Hazardous carbon oxides and sodium oxides formed under fire conditions.		
6. Accidental Release Me	asures			
Containment and spill response	further all sour vacuum and pla Compo	be contact A, B, and D: Immediately contact emergency personnel. Prevent leakage or spillage if safe to do so. Avoid breathing vapors or mist. Remove rees of ignition and provide ventilation. Collect with an electrically protected a cleaner, by wet-brushing, or by absorbing with vermiculite, sand or earth, ce in appropriate container for disposal. Do not let material enter drains. Sonent C and E: Do not let material enter drains. Keep in suitable, closed er for disposal.		

7. Handling and Storage

 \overline{PPE}

Component A, B, and D:

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.

Use personal protective equipment

Component C and E:

Handling: Avoid contact with skin and eyes.

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

8. Exposure Controls / Personal Protection

Engineering controls	Component A, B, and D: Facilities storing and using this material should be equipped			
	with a safety shower and eyewash station. Adequate ventilation should also be present.			

	Component C	and E: Not applicable.			
PPE		A, B, C, D, and E:			
	_	stem: A respiratory protection program that meets OSHA's 29 CFR			
		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.	1			
		chemical resistant, impervious gloves. Appropriate techniques should be ove potentially contaminated gloves.			
	Eyes: Wear ch	emical splash goggles (EN166)			
9. Physical and Chemi	ical Properties				
Physical State		Liquid			
Odor		Not determined			
Solubility in Water		Soluble			
Specific Gravity		Not determined			
рН		Component C -7.4			
		Component E -8.0			
Boiling Point		Not determined			
Melting Point		Not determined			
Flash Point		Not determined			
Vapor Pressure:		Not determined			
Vapor Density:		Not determined			
10. Stability and Reac	4ii4				
Thermal Decomposition		Not applicable			
_		T. T			
Dangerous Products of	Decomposition	Not applicable			
Dangerous Reactions		Not applicable			
11.Toxicological Infor	emation				
RTECS Number		Component A: PV6210000			
		Component B: PV6210000			
		Component C: N/A			
		Component D: PV6210000			
		Component E: N/A			
Toxicity		Components A, Component B and Component D contain DMSO.			
		For 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: May be harmful if absorbed through skin. May cause 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 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 A, B and D 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 Components A, B, C, D, and 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: IATA Exempted quantities labeling				
UN Number	N/A			
Hazard Class	N/A			
Identification Number	N/A			
Packing Group	N/A			
Proper Shipping Name (DOT)	N/A			

JS TSCA (Toxic Substance Control Act):	
	Component A: Listed
	Component B : Listed
	Component C: Not Listed
	Component D : Listed
	Component E: Not Listed
VS CERCLA (Comprehensive Environmental Response,	Component A: 261.33 8(d).
Compensation, and Liability Act:	Component B: 261.33 8(d).
	Component C: Not listed
	Component D : 261.33 8(d)
	Component E: Not listed
JS SARA Title III	Component A
	SARA 302 components: N/A
	SARA 313 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 311/312 Hazards: Fire Hazard, Chronic Health Hazard
	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
JS 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
JS 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

US States: R	Right-to-Know: .	Listed in the	following	States:
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Component A:	Component B:	Component C:	Component D:	Component E:
Pennsylvania Revision Date 2007- 03-01 67-68-5	Pennsylvania Revision Date 2007- 03-01 67-68-5	NA	Pennsylvania Revision Date 2007- 03-01 67-68-5	NA
New Jersey Revision Date 2007-03-01 67-68-5	New Jersey Revision Date 2007- 03-01 67-68-5	NA	New Jersey Revision Date 2007- 03-01 67-68-5	NA
Massachusetts N/A	Massachusetts N/A	NA	Massachusetts N/A	NA

European/International Regulations:

	Component A:	Component B:	Component C:	Component D:	Component E:
EC EINICS	200-664-3	200-664-3	NA	200-664-3	N/A
EC Risk	36/37/38	36/37/38	NA	36/37/38	NA
statements					
WGK	1	1	3	1	3
Canada-	Listed	Listed	Not Listed	Listed	Not Listed
DSL/NDSL					
Canada-	D2B	D2B	NA	D2B	NA
WHMIS					
classification					
Canada-	Listed	Listed	Not 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.