**Safety Data Sheet (SDS)** 

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Revision Number: 1.1	Last updated: April 2015
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1. Product and Company Ide	entification entif
Product Name:	SensoLyte® AFC Thrombin Activity Assay Kit *Fluorimetric*
Manufacturer/Supplier:	AnaSpec, Inc.
muningacian en supplier.	www.anaspec.com
	34801 Campus Drive
	Fremont, CA 94555
	Tel: 510-791-9560
	Fax: 510-791-9572
	Email: service@anaspec.com
Catalog Number	AS-72130
Unit Size	1 kit
Omi Digo	1 Kit
2. Hazards Identification	
Emergency Overview:	
GHS Hazard Classification:	
GHS Physical Hazards	
-	nent A: Flammable liquid (Category 4)
	nent B: Flammable liquid (Category 4)
	nent C: Not Applicable
-	nent D: Not Applicable
	nent E: Flammable liquid (Category 4)
Component F: Acute toxicity, Oral (Category 4) Acute toxicity, Dermal (Category 4)	
irritation (Category 2), Eye irritation (Category 2A), Specific target organ toxicity –	
exposur	re (Category 3), Acute aquatic toxicity (Category 2)
GHS Health and Environment	
Compo	nent A: Irritant to eyes and skin
Compo	nent B: Irritant to eyes and skin
Compo	nent C: Irritant to eyes and skin
Compo	nent D: Irritant to eye and skin
Compor	nent E: Irritant to eyes and skin
Compo	nent F: Harmful by ingestion, irritant, toxic by skin absorption
GHS Signal Words:	
~	nent A: Warning
-	nent B: Warning
	nent C: Warning
	nent D: Warning
1	nent E: Warning
<u> </u>	nent F: Danger
Compo	Helli I. Dangel

# GHS Hazard Statements:

Component A: H227 Combustible liquid Component B: H227 Combustible liquid

Component C: H303 May be harmful if swallowed Component D: H303 May be harmful if swallowed

Component E: H227 Combustible liquid

Component F:H302 Harmful if swallowed, H311 Toxic in contact with skin, H315 Causes skin irritation, H319 Causes serious eye irritation, H335 May cause respiratory irritation, H401

Toxic to aquatic life

# GHS Precautionary Statements:

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

Component F: P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P280: Wear protective gloves/clothing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor/physician if you feel unwell.

# HMIS Classification:

Component A:	Component B:	Component C:	Component D:	Component E:	Component F:
Health hazard: 0	Health hazard: 2				
Flammability: 2	Flammability: 2	Flammability: 0	Flammability: 0	Flammability: 2	Flammability: 3
Physical hazards: 0	Physical hazards: 3				

# NFPA Rating:

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

# 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 (contains 0.1% of Brij-35)	NA
Component D	Proprietary	NA
Component E	Contains DMSO	67-68-5
Component F	Proprietary	N/A

## 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. 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 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 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. Take victim immediately to hospital. Consult a physician.

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

#### 5. Fire Fighting Measures

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Extinguishing media:	
	<b>Component A, B and E:</b> For small fires, use alcohol resistant foam, dry
	chemical, or carbon dioxide. For large fires, use water spray from a safe
	distance.
	<b>Component C and D:</b> Use extinguishing measures that are appropriate to
	local circumstances and the surrounding environment.
	Component F: Use water spray, alcohol-resistant foam, dry chemical or
	carbon dioxide.
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, D and F: Wear self-contained breathing apparatus (SCBA)
	if necessary.
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  Component F: Hazardous carbon oxides, sodium oxides and sulphur oxides formed under fire conditions.

#### **6.** Accidental Release Measures

Containment and spill	<b>Component A, B and E:</b> 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 C and D: Keep in suitable, closed containers for disposal. Do not let
	material enter drains.
	<b>Component F:</b> Contain spillage and collect with an electrically protected vacuum
	cleaner or wet brush. Keep in suitable, closed container for disposal. Do not let
	material enter drains.
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:**

Handling: Avoid contact with skin and eyes.

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

# **Component F:**

*Handling:* Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Take measures to prevent the buildup of electrostatic charge.

Storage: Store in a tightly closed container in a dry, well-ventilated area.

# 8. Exposure Controls / Personal Protection

8. Exposure Contr	ols / Personal Protection
Engineering controls	Component A, B, E and F: 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 D: Not applicable.
PPE	Components A, B, E and F:
	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.
	Components C and D:
	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 C –7.5	
	Component D -6.5	
Boiling Point	Not determined	
Melting Point	Not determined	
Flash Point	Not determined	
Vapor Pressure:	Not determined	
Vapor Density:	Not 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: PV6210000			
	Component B: PV6210000			
	Component C: N/A			
	Component D: N/A			
	Component E: PV6210000			
<u></u>	Component F: N/A			
Toxicity	Components A, Component B and Component E 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			
	Components C and D:			
	Oral LD50 - rat - 3,000 mg/kg			
	Inhalation LC50 - rat - 1 h - > 42,000 mg/m3			
	Dermal LD50 - rabbit - > 10,000 mg/kg			
	Skin - rabbit - Mild skin irritation - 24 h			
	Eyes - rabbit - Mild eye irritation - Draize Test			
	Component F			
	LD50 Oral – rat - 1,288 mg/kg			
	LC50 Inhalation – rat – 1 h - >3,900 mg/m3 LD50 Dermal – rabbit - 580 mg/kg			
	LD30 Definal – fabbit - 300 hig/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: Toxic 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 is			
Canainaganiaitu	readily absorbed through skin and may carry such materials into the body.  No data available			
Carcinogenicity:	No data available  No data available			
OSHA Permissible Exposure Limit(PEL) Data	INO data avaliable			
ACGIH Threshold Limit Values (TLV)	No data available			
, ,	110 data avallable			
12. Ecological Information				

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

Components C and D

#### Toxicity

Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) - 186 mg/l - 96 h

LC50 - Lepomis macrochirus (Bluegill) - 1,294.6 mg/l - 96 h

NOEC - Pimephales promelas (fathead minnow) - 4,000 mg/l - 7 d

Toxicity to daphnia and other aquatic invertebrates.

NOEC - Daphnia - 1,500 mg/l - 7 d

LC50 - Daphnia magna (Water flea) - 1,661 mg/l - 48 h

Component F

#### Toxicity

Toxicity to fish mortality NOEC - Oncorhynchus mykiss (rainbow trout) - 19.5 mg/l - 96 h

mortality LOEC - Pimephales promelas (fathead minnow) - 4.6 mg/l - 8 d

LC50 - Oncorhynchus mykiss (rainbow trout) - 3.6 mg/l - 96 h

Toxicity to algae Growth inhibition LOEC - Pseudokirchneriella subcapitata - 2.68 mg/l - 6 d

Components A, B, C, D and E

# 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

Component F

# Persistence and degradability

No data available

# **Bioaccumulative potential**

Bioaccumulation Cyprinus carpio (Carp) - 72 h

Bioconcentration factor (BCF): 3.9 - 5.3

#### Mobility in soil

No data available

#### PBT and vPvB assessment

No data available

# Other adverse effects

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

Toxic to aquatic life.

### 13. Disposal Considerations

### For Components A, B, E and F

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.

# Components C and D

Offer surplus and non-recyclable solutions to a licensed disposal company.

# Contaminated packaging

Dispose of as unused product.

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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		

California Proposition 65:	N/A
•	
US TSCA (Toxic Substance Control Act):	Component A: Listed
	Component <b>B</b> : Listed
	Component C: Listed
	Component <b>D</b> :Listed
	Component E: Listed
	Component F: Listed
US CERCLA (Comprehensive Environmental Response,	Component <b>A</b> : 261.33 8(d).
Compensation, and Liability Act:	Component <b>B</b> : 261.33 8(d).
	Component C: N/A
	Component <b>D</b> : N/A
	Component <b>E</b> : 261.33 8(d).
	Component F: Not listed
US 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 313 Components. N/A SARA 311/312 Hazards: N/A
	Component D  SARA 202 components N/A
	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, Acute Health Hazard, Chronic
	Health Hazard
US Clean Air Act:	Component A, B, C, D, E and F
	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, E and F
	Listed under "Hazardous Substances": Not listed
	Listed under "Priority Pollutants": Not listed
	Listed under "Toxic Pollutants": Not listed

# US States: Right-to-Know: Listed in the following States:

Component A:	Component B:	Component C:	Component D:	Component E:	Component F:
Pennsylvania	Pennsylvania	N/A	NA	Pennsylvania	Pennsylvania
Revision Date	Revision Date			Revision Date	Revision Date
2007-03-01	2007-03-01			2007-03-01	N/A
New Jersey	New Jersey	N/A	NA	New Jersey	New Jersey
Revision Date	Revision Date			Revision Date	Revision Date
2007-03-01	2007-03-01			2007-03-01	N/A
Massachusetts	Massachusetts	N/A	NA	Massachusetts	Massachusetts
N/A	N/A			N/A	N/A

# European/International Regulations:

	Component A:	Component B:	Component C:	Component D:	Component E:	Component F:
EC EINICS	200-664-3	200-664-3	N/A	N/A	200-664-3	N/A
EC Risk statements	36/37/38	36/37/38	N/A	NA	36/37/38	36/37/38- 36/38-22-11- 21/22-42-41- 20/21/22
WGK	1	1	1	1	1	2
Canada- DSL/NDSL	Listed	Listed	NA	NA	Listed	Listed
Canada- WHMIS classification	D2B	D2B	NA	NA	D2B	D2B
Canada- Canadian Ingredient Disclosure List	Listed	Listed	Not listed	Not listed	Listed	Not listed

#### 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.