

# Safety Data Sheet (SDS)

<i>Revision Number: 1.1</i>	<i>Last updated: April 2015</i>
<b><u>1. Product and Company Identification</u></b>	
<i>Product Name:</i>	<b>SensoLyte<sup>®</sup> AFC uPA Activity Assay Kit * Fluorimetric*</b>
<i>Manufacturer/Supplier:</i>	AnaSpec, Inc. <a href="http://www.anaspec.com">www.anaspec.com</a> 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572 Email: <a href="mailto:service@anaspec.com">service@anaspec.com</a>
<i>Catalog Number</i>	AS-72159
<i>Unit Size</i>	1 kit
<b><u>2. Hazards Identification</u></b>	
<i>Emergency Overview:</i>	
<i>GHS Hazard Classification:</i>	
<i>GHS Physical Hazards</i>	
<p style="margin-left: 40px;">Component A: Not Applicable  Component B: Flammable liquid (Category 4)  Component C: Skin irritation (Category 2), Eye irritation (Category 2A), Specific target organ toxicity – single exposure (Category 3)  Component D: Skin irritation (Category 2), Eye irritation (Category 2A), Specific target organ toxicity – single exposure (Category 3)  Component E: Not Applicable</p>	
<i>GHS Health and Environmental Hazards</i>	
<p style="margin-left: 40px;">Component A: Irritant to eyes and skin  Component B: Irritant to eyes and skin  Component C: Irritant to eyes and skin, may cause respiratory irritation  Component D: Irritant to eyes and skin, may cause respiratory irritation  Component E: Irritant to eyes and skin</p>	
<i>GHS Signal Words:</i>	
<p style="margin-left: 40px;">Component A: Not Applicable  Component B: Warning  Component C: Warning  Component D: Warning  Component E: Not Applicable</p>	
<i>GHS Hazard Statements:</i>	
<p style="margin-left: 40px;">Component A: Not Applicable  Component B: H227 Combustible liquid</p>	

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Component C: H315 Causes skin irritation  
 H319 Causes serious eye irritation  
 H335 May cause respiratory irritation  
 Component D: H315 Causes skin irritation  
 H319 Causes serious eye irritation  
 H335 May cause respiratory irritation  
 Component E: Not Applicable

*GHS Precautionary Statements:*

Component A: - None  
 Component B: - None  
 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: - 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: None

*HMS Classification:*

<b>Component A:</b>	<b>Component B:</b>	<b>Component C:</b>	<b>Component D:</b>	<b>Component E:</b>
<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 2</i>	<i>Health hazard: 2</i>	<i>Health hazard: 1</i>
<i>Flammability: 0</i>	<i>Flammability: 2</i>	<i>Flammability: 0</i>	<i>Flammability: 0</i>	<i>Flammability: 0</i>
<i>Physical hazards: 0</i>	<i>Physical hazards: 0</i>	<i>Physical hazards: 0</i>	<i>Physical hazards: 0</i>	<i>Physical hazards: 0</i>

*NFPA Rating:*

<b>Component A:</b>	<b>Component B:</b>	<b>Component C:</b>	<b>Component D:</b>	<b>Component E:</b>
<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 2</i>	<i>Health hazard: 2</i>	<i>Health hazard: 0</i>
<i>Fire: 0</i>	<i>Fire: 2</i>	<i>Fire: 0</i>	<i>Fire: 0</i>	<i>Fire: 0</i>
<i>Reactivity hazard: 0</i>	<i>Reactivity hazard: 0</i>	<i>Reactivity hazard: 0</i>	<i>Reactivity hazard: 0</i>	<i>Reactivity hazard: 0</i>

**3. Composition / Information on Ingredients***Ingredients/Components:*

<i>Chemical Name:</i>	<i>Description</i>	<i>CAS Number:</i>
Component A	AMC substrate	None
Component B	Contains DMSO	67-68-5
Component C	Proprietary	NA
Component D	Proprietary	NA
Component E	Leupeptin	24365-47-7

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**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:* 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. Take victim immediately to hospital. 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.

**5. Fire Fighting Measures**

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<i>Extinguishing media:</i>	<p><b>Component A:</b> Not applicable.</p> <p><b>Component B:</b> For small fires, use alcohol resistant foam, dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance</p> <p><b>Component C:</b> Use alcohol-resistant foam, dry chemical, carbon dioxide, or water spray.</p> <p><b>Component D:</b> Use alcohol-resistant foam, dry chemical, carbon dioxide, or water spray.</p> <p><b>Component E:</b> Not applicable</p>
<i>Special firefighting procedures:</i>	<p><b>Component A:</b> Not applicable.</p> <p><b>Component B:</b> Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.</p> <p><b>Component C:</b> Wear self-contained breathing apparatus if necessary.</p> <p><b>Component D:</b> Wear self-contained breathing apparatus if necessary.</p> <p><b>Component E:</b> Not applicable</p>
<i>Unusual fire and explosions hazards:</i>	<p><b>Component A:</b> Not applicable.</p> <p><b>Component B:</b> 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.</p> <p><b>Component C:</b> Carbon oxides and nitrogen oxides formed under fire conditions.</p> <p><b>Component D:</b> Carbon oxides and nitrogen oxides formed under fire conditions.</p> <p><b>Component E:</b> Not applicable</p>

## **6. Accidental Release Measures**

<i>Containment and spill response</i>	<p><b>Component A:</b> Sweep up the liquid. Do not let material enter drains.</p> <p><b>Component B:</b> 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.</p> <p><b>Component C:</b> Wear personal protective equipment. Do not let material enter drains or discharge into the environment.</p> <p><b>Component D:</b> Wear personal protective equipment. Do not let material enter drains or discharge into the environment.</p> <p><b>Component E:</b> Sweep up the liquid. Do not let material enter drains.</p>
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<i>PPE</i>	Use personal protective equipment
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## **7. Handling and Storage**

### **Component A**

*Handling:* Avoid contact with skin and eyes. Keep container tightly closed.

**Component B**

*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**

*Handling:* Avoid contact with skin and eyes.

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

**Component D**

*Handling:* Avoid contact with skin and eyes.

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

**Component E**

*Handling:* Avoid contact with skin and eyes. Keep container tightly closed.

**8. Exposure Controls / Personal Protection**

<i>Engineering controls</i>	<b>Component A, B, C, D and E:</b> Facilities storing and using this material should be equipped with a safety shower and eyewash station. Adequate ventilation should also be present.
<i>PPE</i>	<p><b>Component A</b> Wear appropriate chemical-resistant gloves, safety goggles and protective clothing.</p> <p><b>Component B</b> <i>Respiratory System:</i> 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. <i>Skin and Body:</i> Wear appropriate work uniform or laboratory coat to prevent skin exposure. <i>Hands:</i> Use chemical resistant, impervious gloves. Appropriate techniques should be used to remove potentially contaminated gloves. <i>Eyes:</i> Wear chemical splash goggles.</p> <p><b>Component C</b> <i>Respiratory System:</i> Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). <i>Skin and Body:</i> Wear appropriate work uniform or laboratory coat to prevent skin exposure. <i>Hands:</i> Use chemical resistant, impervious gloves. Appropriate techniques should be used to remove potentially contaminated gloves. <i>Eyes:</i> Handle with face shield and safety glasses.</p> <p><b>Component D</b> <i>Respiratory System:</i> Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). <i>Skin and Body:</i> Wear appropriate work uniform or laboratory coat to prevent skin exposure. <i>Hands:</i> Use chemical resistant, impervious gloves. Appropriate techniques should be used to remove potentially contaminated gloves. <i>Eyes:</i> Handle with face shield and safety glasses.</p> <p><b>Component E</b> Wear appropriate chemical-resistant gloves, safety goggles and protective clothing.</p>

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<b>9. Physical and Chemical Properties</b>	
<i>Physical State</i>	Liquid
<i>Odo</i>	Not determined
<i>Solubility in Water</i>	Soluble
<i>Specific Gravity</i>	Not determined
<i>pH</i>	Component C -8.8 Component D -8.8
<i>Boiling Point</i>	Not determined
<i>Melting Point</i>	Not determined
<i>Flash Point</i>	Not determined
<i>Vapor Pressure:</i>	Not determined
<i>Vapor Density:</i>	Not determined
<b>10. Stability and Reactivity</b>	
<i>Thermal Decomposition</i>	Not applicable
<i>Dangerous Products of Decomposition</i>	Not Applicable
<i>Dangerous Reactions</i>	Not Applicable
<b>11. Toxicological Information</b>	
<i>RTECS Number</i>	Component A:NA Component B: PV6210000 Component C: N/A Component D: NA Component E: NA
<i>Toxicity</i>	<b>Component A</b> <i>Not available</i> <b>Component B contains DMSO</b> <i>For DMSO</i> 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 <b>Component C</b> Oral LD50 LD50 Oral - rat - 5,900 mg/kg <b>Component D</b> Oral LD50 LD50 Oral - rat - 5,900 mg/kg <b>Component E</b> <i>Not available</i>
<i>Health Hazards</i>	<i>No data available</i>
<i>Potential Hazards</i>	<b>Potential Health Effects</b> <b>Component C and Component D</b> <b>Inhalation</b> May be harmful if inhaled. Causes respiratory tract irritation.

	<b>Skin</b> May cause skin irritation. May be harmful if absorbed through skin. <b>Eyes</b> Causes eye irritation. <b>Ingestion</b> May be harmful if swallowed
<i>Carcinogenicity:</i>	No data available
<i>OSHA Permissible Exposure Limit(PEL) Data</i>	No data available
<i>ACGIH Threshold Limit Values (TLV)</i>	No data available
<b><u>12. Ecological Information</u></b>	
<b>Component A</b> No data available <b>Component B (contains DMSO)</b> For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 <b>Toxicity</b> 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 <b>Persistence and degradability</b> No data available <b>Bioaccumulative potential</b> No data available <b>Mobility in soil</b> No data available <b>PBT and vPvB assessment</b> No data available <b>Other adverse effects</b> No data available <b>Component C</b> No data available <b>Component D</b> No data available <b>Component E</b> No data available	
<b><u>13. Disposal Considerations</u></b>	

**For Component A****Contaminated packaging**

Dispose of as unused product.

**Component B (contains DMSO)**

For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5

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.

**Component C and Component D****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material

**Contaminated packaging**

Dispose of as unused product.

**For Component E****Contaminated packaging**

Dispose of as unused product.

**14. Transport Information: IATA Exempted quantities labeling**

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

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<b><u>15. Regulatory information</u></b>	
<i>California Proposition 65:</i>	Component <b>A</b> : Not listed Component <b>B</b> : Not listed Component <b>C</b> : Not listed Component <b>D</b> : Not listed Component <b>E</b> : Not listed
US TSCA (Toxic Substance Control Act):	Component <b>A</b> : Not listed Component <b>B</b> : Listed Component <b>C</b> : Listed Component <b>D</b> : Listed Component <b>E</b> : Not Listed
<i>US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):</i>	Component <b>A</b> : Not listed Component <b>B</b> : 261.33 8(d). Component <b>C</b> : Not listed Component <b>D</b> : Not listed Component <b>E</b> : Not listed
US SARA Title III	Component <b>A</b> SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: N/A Component <b>B</b> SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard Component <b>C</b> SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Acute Health Hazard Component <b>D</b> SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Acute Health Hazard Component <b>E</b> SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: N/A
US Clean Air Act:	Component <b>A, B, C, D and E</b> <i>Listed under Hazardous Air Pollutants: Not listed</i> <i>Listed under Class 1 Ozone Depletors: Not listed</i> <i>Listed under Class 2 Ozone Depletors: Not listed</i>
<i>US Clean Water Act:</i>	Components <b>A, B, C, D and E</b> Listed under "Hazardous Substances": Not listed <i>Listed under "Priority Pollutants": Not listed</i> Listed under "Toxic Pollutants": Not listed

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<i>US States: Right-to-Know: Listed in the following States:</i>					
Component A:	Component B:	Component C:	Component D:	Component E:	
N/A	Pennsylvania Revision Date 2007-03-01	Pennsylvania Revision Date N/A	Pennsylvania Revision Date N/A	N/A	
N/A	New Jersey Revision Date 2007-03-01	New Jersey Revision Date N/A	New Jersey Revision Date N/A	N/A	
N/A	N/A	N/A	N/A	N/A	
<i>European/International Regulations:</i>					
	Component A	Component B	Component C	Component D	Component E
EC EINICS	N/A	200-664-3	N/A	N/A	N/A
<i>EC Risk statements</i>	N/A	36/37/38	36/37/38	36/37/38	N/A
<i>WGK</i>	N/A	1	1	1	N/A
<i>Canada- DSL/NDSL</i>	Not listed	Listed	Listed	Listed	Not listed
<i>Canada- WHMIS classification</i>	N/A	D2B	D2B	D2B	N/A
<i>Canada- Canadian Ingredient Disclosure List</i>	Not listed	Listed	Not listed	Not listed	Not listed
<b>16. Other Information</b>					
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.					

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