## Safety Data Sheet (SDS)

**Revision Number:** 1.1  
**Last updated:** April 2015

### 1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>SensoLyte® AFC Plasmin Activity Assay Kit * Fluorimetric*</th>
</tr>
</thead>
</table>
| Manufacturer/Supplier: | AnaSpec, Inc.  
www.anaspec.com  
34801 Campus Drive  
Fremont, CA 94555  
Tel: 510-791-9560  
Fax: 510-791-9572  
Email: service@anaspec.com |
| Catalog Number | AS-72124 |
| Unit Size | 1 kit |

### 2. Hazards Identification

**Emergency Overview:**

**GHS Hazard Classification:**

**GHS Physical Hazards**

- Component A: Flammable liquid (Category 4)
- Component B: Flammable liquid (Category 4)
- Component C: Not applicable
- Component D: Not applicable
- Component E: Flammable liquid (Category 4)
- Component F: Not applicable

**GHS Health and Environmental Hazards**

- Component A: Irritant to eyes and skin
- Component B: Irritant to eyes and skin
- Component C: Irritant to eyes, skin and respiratory system
- Component D: Non-hazardous
- Component E: Irritant to eyes and skin
- Component F: Causes severe skin burns and eye damage  
  May cause damage to organs

**GHS Signal Words:**

- Component A: Warning
- Component B: Warning
- Component C: Void
- Component D: Void
- Component E: Warning
- Component F: Danger

**GHS Hazard Statements:**

- Component A: H227 Combustible liquid
- Component B: H227 Combustible liquid
Component C: H315 Causes skin irritation
    H319 Causes serious eye irritation
    H335 May cause respiratory irritation
Component E: H227 Combustible liquid
Component F: H314 Causes severe skin burns and eye damage
    H371 May cause damage to organs

GHS Precautionary Statements:
Component A: P210 Keep away from heat/sparks/open flames/hot surface. No smoking.
    P280 Wear protective gloves/protective clothing/eye protection/face protection.
Component B: P210 Keep away from heat/sparks/open flames/hot surface. No smoking.
    P280 Wear protective gloves/protective clothing/eye protection/face protection.
Component C: None
Component D: None
Component E: P210 Keep away from heat/sparks/open flames/hot surface. No smoking.
    P280 Wear protective gloves/protective clothing/eye protection/face protection.
Component F: P260 Do not breathe dust/fume/gas/mist/vapors/spray
    P264 Wash skin thoroughly after handling
    P270 Do not eat, drink or smoke when using this product
    P280 Wear protective gloves/protective clothing/eye protection/face protection
    P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting
    P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated
    clothing. Rinse skin with water/shower
    P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position
    comfortable for breathing
    P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
    contact lenses, if present and easy to do. Continue rinsing
    P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician
    P310 Immediately call a POISON CENTER or doctor/physician
    P321 Specific treatment (see supplemental first aid instructions on this label)
    P363 Wash contaminated clothing before reuse
    P405 Store locked up
    P501 Dispose of contents/container to an approved waste disposal plant

HMIS Classification:

<table>
<thead>
<tr>
<th>Component A:</th>
<th>Component B:</th>
<th>Component C:</th>
<th>Component D:</th>
<th>Component E:</th>
<th>Component F:</th>
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<tbody>
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NFPA Rating:

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<th>Component E:</th>
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### 3. Composition / Information on Ingredients

<table>
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<tr>
<th>Chemical Name:</th>
<th>Description</th>
<th>CAS Number:</th>
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<tbody>
<tr>
<td>Component A</td>
<td>Contains DMSO</td>
<td>67-68-5</td>
</tr>
<tr>
<td>Component B</td>
<td>Contains DMSO</td>
<td>67-68-5</td>
</tr>
<tr>
<td>Component C</td>
<td>Proprietary</td>
<td>N/A</td>
</tr>
<tr>
<td>Component D</td>
<td>Proprietary</td>
<td>NA</td>
</tr>
<tr>
<td>Component E</td>
<td>Contains DMSO</td>
<td>67-68-5</td>
</tr>
<tr>
<td>Component F</td>
<td>Contains HCl</td>
<td>7647-01-0</td>
</tr>
</tbody>
</table>
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 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:* Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
*Eyes:* Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

5. Fire Fighting Measures

<table>
<thead>
<tr>
<th>Extinguishing media:</th>
<th><strong>Component A, B and E:</strong> For small fires, use dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special firefighting procedures:</td>
<td><strong>Component A, B and E:</strong> Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.</td>
</tr>
<tr>
<td><strong>Unusual fire and explosions hazards:</strong></td>
<td><strong>Component A, B and E:</strong> 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. <strong>Component C:</strong> Not applicable <strong>Component D:</strong> Not applicable <strong>Component F:</strong> Not applicable</td>
</tr>
</tbody>
</table>
### 6. Accidental Release Measures

**Containment and spill response**

**Component A, B and E:** 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:** Absorb liquid with paper towels. Wipe working surfaces to dryness, and then wash with soap and water.

**Component D:** Take up with absorbent material and place in a disposable container. Wipe up area with a damp paper towel and discard in the disposable container.

**Component F:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**PPE**

Use personal protective equipments

### 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:**
Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**Component D:**
Handling: Normal measures for preventive fire protection. Avoid contact with eyes, skin and clothing.
Storage: Keep container tightly closed in a dry and well-ventilated place.

**Component F:**
Handling: Avoid inhalation of vapor or mist.
Storage: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 8. Exposure Controls / Personal Protection

**Engineering controls**

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

**Component C:** Wear suitable protective clothing, including gloves, safety glasses, dust mask, and a laboratory coat.

**Component D:** Wear suitable protective clothing, including gloves, safety glasses, dust mask,
and a laboratory coat.

**Component F**: Local exhaust ventilation or breathing protection is required. Secondary containment of all storage and use is required if an exposure risk to employees or the environment is present.

**PPE**
Wear suitable protective clothing, including gloves, safety glasses, dust mask, and a laboratory coat.

9. **Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Solubility in Water</strong></td>
<td>Soluble</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong></td>
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<tr>
<td><strong>pH</strong></td>
<td></td>
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<tr>
<td>Component C</td>
<td>pH 7.3</td>
</tr>
<tr>
<td>Component D</td>
<td>pH 7.4</td>
</tr>
<tr>
<td>Component F</td>
<td>pH 0.7</td>
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<tr>
<td><strong>Boiling Point</strong></td>
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</tr>
<tr>
<td><strong>Melting Point</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
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</tr>
<tr>
<td><strong>Vapor Density</strong></td>
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</tr>
</tbody>
</table>

10. **Stability and Reactivity**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thermal Decomposition</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Dangerous Products of Decomposition</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Dangerous Reactions</strong></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

11. **Toxicological Information**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RTECS Number</strong></td>
<td>Component A: PV6210000</td>
</tr>
<tr>
<td><strong>Toxicity</strong></td>
<td>Component B: PV6210000</td>
</tr>
<tr>
<td><strong>Component C</strong>: N/A</td>
<td>Component D: N/A</td>
</tr>
<tr>
<td><strong>Component E</strong>: PV6210000</td>
<td>Component F: MW4025000</td>
</tr>
<tr>
<td><strong>Component F contains HCl</strong></td>
<td></td>
</tr>
</tbody>
</table>

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

For **hydrochloric acid**
- LD50 Oral - rabbit - 900 mg/kg (Hydrochloric acid)
Carcinogenicity:
No applicable

OSHA Permissible Exposure Limit (PEL) Data
No data available

ACGIH Threshold Limit Values (TLV)
No data available

12. Ecological Information

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

For hydrochloric acid CAS-No. 7647-01-0 (Component F contains hydrochloric acid)

Toxicity
Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) - 282 mg/l - 96 h (Hydrochloric acid)

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available (Hydrochloric acid)

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 (Component A, B 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.

For hydrochloric acid CAS-No. 7647-01-0 (Component F contains hydrochloric acid)

**Product**
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**
Dispose of as unused product.

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

<table>
<thead>
<tr>
<th>UN Number</th>
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<tbody>
<tr>
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<tr>
<td>Identification Number</td>
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<tr>
<td>Packing Group</td>
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<tr>
<td>Proper Shipping Name (DOT)</td>
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</tbody>
</table>

### 15. Regulatory information

**California Proposition 65:**
Not listed

**US TSCA (Toxic Substance Control Act):**
- Component A: Listed
- Component B: Listed
- Component C: N/A
- Component D: N/A
- Component E: Listed
- Component F: Listed

**US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):**
- Component A: 261.33 8(d).
- Component B: 261.33 8(d).
- Component C: N/A
- Component D: N/A
- Component E: 261.33 8(d).
- Component F: RQ 5000 lbs

**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 E
  - SARA 302 components: N/A
  - SARA 313 components: N/A
  - SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard
- Component F
SARA 302: N/A
SARA 313: Listed
SARA 311/312 Hazards: Acute Health Hazard

**US 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
Component F
Listed under Hazardous Air Pollutants: 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 and E
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:

<table>
<thead>
<tr>
<th>Component A</th>
<th>Component B</th>
<th>Component C</th>
<th>Component D</th>
<th>Component E</th>
<th>Component F</th>
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**European/International Regulations:**

<table>
<thead>
<tr>
<th>EC ENINCS</th>
<th>Component A</th>
<th>Component B</th>
<th>Component C</th>
<th>Component D</th>
<th>Component E</th>
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<tr>
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**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.