Safety Data Sheet (SDS)

Revision Number: 1.1

1. Product and Company Identification

Product Name: SensoLyte® HAT (p300) Activity Assay Kit *Fluorimetric*

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-72172
Unit Size 1 kit

2. Hazards Identification

Emergency Overview:

GHS Hazard Classification:

GHS Physical Hazards

Component A: Not Applicable
Component B: Not Applicable
Component C: Not Applicable
Component D: Not Applicable
Component E: Not Applicable
Component F: Flammable liquid (Category 4)
Component G: Flammable liquid (Category 4)
Component H: Flammable liquid (Category 4)
Component I: 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 and skin
Component D: Irritant to eyes and skin
Component E: Irritant to eyes and skin, Acute toxicity, oral
Component F: Irritant to eyes and skin
Component G: Irritant to eyes and skin
Component H: Irritant to eyes and skin
Component I: Irritant to eyes and skin

GHS Signal Words:

Component A: Not Applicable
Component B: Not Applicable
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:**

<table>
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<th>Component A:</th>
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**NFPA Rating:**

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### 3. Composition / Information on Ingredients

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<td>Component G</td>
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<td>Component I</td>
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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.

**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 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.

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### 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 response**

| Component F, G, and H: 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. |
| Component A, B, C, D, E, and I: Do not let material enter drains. Keep in suitable, closed containers for disposal. |
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

<table>
<thead>
<tr>
<th>Engineering controls</th>
<th><strong>Component F, G, and H:</strong> Facilities storing and using this material should be equipped with a safety shower and eyewash station. Adequate ventilation should also be present.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Component A, B, C, D, E, and I:</strong></td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

**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

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<th>Physical State</th>
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<td><em>Specific Gravity</em></td>
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<td><em>Boiling Point</em></td>
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</table>
### 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

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<th>Component</th>
<th>Number</th>
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<td>H</td>
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<td>I</td>
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</table>

##### 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 containing toxic materials or materials with unknown toxicological

AnaSpec Inc.
34801 Campus Drive, Fremont, CA 94555
Toll-Free: 800-452-5530 • Tel: 510-791-9560 • Fax: 510-791-9573
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) 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 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 |
## 15. Regulatory information

<table>
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<th>California Proposition 65:</th>
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| US TSCA (Toxic Substance Control Act): | Component A: Not Listed  
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, Compensation, and Liability Act*): | Component A: Not listed  
Component B: Not listed  
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 |
| US SARA Title III | Component A  
SARA 302 components: N/A  
SARA 313 components: N/A  
SARA 311/312 Hazards: N/A  
Component B  
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Component G  
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Component H  
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SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard |
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 Air 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

US Clean Water Act:
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

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

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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.