## Safety Data Sheet (SDS)

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

### 1. Product and Company Identification

<table>
<thead>
<tr>
<th><strong>Product Name:</strong></th>
<th>SensoLyte® 520 BACE2 Assay Kit <em>Fluorimetric</em></th>
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| **Manufacturer/Supplier:** | AnaSpec, Inc.  
[www.anaspec.com](http://www.anaspec.com)  
34801 Campus Drive  
Fremont, CA 94555  
Tel: 510-791-9560  
Fax: 510-791-9572  
Email: service@anaspec.com |
| **Catalog Number** | AS-72225 |
| **Unit Size** | 1 kit |

### 2. Hazards Identification

**Emergency Overview:**

**GHS Hazard Classification:**

**GHS Physical Hazards**

- Component A: Flammable liquid (Category 2)
- Component B: Flammable liquid (Category 2)
- Component C: Skin irritation (Category 1), Eye irritation (Category 1)
- Component D: Flammable liquid (Category 2)
- Component E: N/A

**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: N/A

**GHS Signal Words:**

- Component A: Warning
- Component B: Warning
- Component C: Warning
- Component D: Warning
- Component E: N/A

**GHS Hazard Statements:**

- Component A: H227 Combustible liquid
- Component B: H227 Combustible liquid
- Component C: H316 Causes mild skin irritation, H320 Causes eye irritation.  
  H335 May cause respiratory irritation.
Component D: H227 Combustible liquid  
Component E: N/A

**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. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
Component D: -None.  
Component E: -None

**HMIS Classification:**

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<tr>
<th>Component A:</th>
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<th>Component C:</th>
<th>Component D:</th>
<th>Component E:</th>
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**NFPA Rating:**

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**3. Composition / Information on Ingredients**

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<tr>
<th>Chemical Name:</th>
<th>Description</th>
<th>CAS Number:</th>
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<tr>
<td>Component A</td>
<td>Contains DMSO</td>
<td>67-68-5</td>
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<tr>
<td>Component B</td>
<td>Contains DMSO</td>
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<tr>
<td>Component C</td>
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<tr>
<td>Component D</td>
<td>Contains DMSO</td>
<td>67-68-5</td>
</tr>
<tr>
<td>Component E</td>
<td>Proprietary</td>
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</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, B, D**

**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 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.

### 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 and full turnout gear.
- **Component C and E:** N/A

#### 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:** N/A

### 6. Accidental Release Measures

#### Containment and spill response
- **Component A, B and D:** Soak with inert absorbent material. Keep in suitable, closed container for disposal. Remove all source of ignition. Use spark-proof tools and explosion-proof equipment.
- **Component C and E:** Do not let product enter drains. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### PPE
Use personal protective equipment. Ensure adequate ventilation.

### 7. Handling and Storage

#### 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.

#### 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. Use explosion-proof equipment. Adequate ventilation should also be present.

Component C and E: Not applicable.

**PPE**

Components A, B, C, D, and E:

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 (EN166)

### 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
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<tbody>
<tr>
<td>Odor</td>
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<tr>
<td>Solubility in Water</td>
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<td>Specific Gravity</td>
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<tr>
<td>pH</td>
<td>Component C – 4.0 Component D – 8.0</td>
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<td>Melting Point</td>
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<td>Flash Point</td>
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<td>Vapor Pressure:</td>
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<tr>
<td>Vapor Density:</td>
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</table>

### 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: PV6210000
Component E: N/A

**Toxicity**

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
Component C and Component E
Not Applicable

### 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.

#### 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 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
- Component C and E
- No data available
- 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

### 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

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### 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: Listed  
Component B: Listed  
Component C: Not Listed  
Component D: Listed  
Component E: Not Listed |
Component B: 261.33 8(d).  
Component C: N/A  
Component D: 261.33 8(d).  
Component E: N/A |
| **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 311/312 Hazards: N/A  
Component D  
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: N/A |
| **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 |
| **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>
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### European/International Regulations:

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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.