

# Safety Data Sheet (SDS)

<i>Revision Number: 1.1</i>	<i>Last updated: May 2015</i>
<b><u>1. Product and Company Identification</u></b>	
<i>Product Name:</i>	<b>SensoLyte<sup>®</sup> 520 BACE2 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-72225
<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>	
<ul style="list-style-type: none"> <li>Component A: Flammable liquid (Category 2)</li> <li>Component B: Flammable liquid (Category 2)</li> <li>Component C: Skin irritation (Category 1), Eye irritation (Category 1)</li> <li>Component D: Flammable liquid (Category 2)</li> <li>Component E: N/A</li> </ul>	
<i>GHS Health and Environmental Hazards</i>	
<ul style="list-style-type: none"> <li>Component A: Irritant to eyes and skin</li> <li>Component B: Irritant to eyes and skin</li> <li>Component C: Irritant to eyes and skin</li> <li>Component D: Irritant to eyes and skin</li> <li>Component E: N/A</li> </ul>	
<i>GHS Signal Words:</i>	
<ul style="list-style-type: none"> <li>Component A: Warning</li> <li>Component B: Warning</li> <li>Component C: Warning</li> <li>Component D: Warning</li> <li>Component E: N/A</li> </ul>	
<i>GHS Hazard Statements:</i>	
<ul style="list-style-type: none"> <li>Component A: H227 Combustible liquid</li> <li>Component B: H227 Combustible liquid</li> <li>Component C: H316 Causes mild skin irritation, H320 Causes eye irritation. H335 May cause respiratory irritation.</li> </ul>	

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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

*HMS Classification:*

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

*NFPA Rating:*

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

### **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	NA
Component D	Contains DMSO	67-68-5
Component E	Proprietary	NA

### **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.

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<i>Skin:</i>	Wash off with soap and plenty of water. Consult a physician.
<i>Eyes:</i>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Component E</b>	
<i>Inhalation:</i>	If breathe d in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<i>Ingestion:</i>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<i>Skin:</i>	Wash off with soap and plenty of water. Consult a physician.
<i>Eyes:</i>	Flush eyes with water as a precaution.

**5. Fire Fighting Measures**

<i>Extinguishing media:</i>	<b>Component A, B and D:</b> For small fires, use dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance. <b>Component C and E:</b> Use water spray, dry chemical or carbon dioxide.
<i>Special firefighting procedures:</i>	<b>Component A, B and D:</b> Fire fighters should wear positive pressure self-contained breathing apparatus and full turnout gear. <b>Component C and E:</b> N/A
<i>Unusual fire and explosions hazards:</i>	<b>Component A, B and D:</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. <b>Component C and E:</b> N/A

**6. Accidental Release Measures**

<i>Containment and spill response</i>	<b>Component A, B and D:</b> 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. <b>Component C and E:</b> 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.
<i>PPE</i>	Use personal protective equipment. Ensure adequate ventilation.

**7. Handling and Storage**

<b>Component A, B and D:</b>	
<i>Handling:</i> 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.	
<i>Storage:</i> 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.	
<b>Component C and E:</b>	
<i>Handling:</i> Avoid contact with skin and eyes.	
<i>Storage:</i> Keep container tightly closed in a dry and well-ventilated place.	

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<b><u>8. Exposure Controls / Personal Protection</u></b>	
<i>Engineering controls</i>	<b>Component A, B, and D:</b> 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. <b>Component C and E:</b> Not applicable.
<i>PPE</i>	<b>Components A, B, C, D, and E:</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 (EN166)
<b><u>9. Physical and Chemical Properties</u></b>	
<i>Physical State</i>	Liquid
<i>Odor</i>	Not determined
<i>Solubility in Water</i>	Soluble
<i>Specific Gravity</i>	Not determined
<i>pH</i>	Component C – 4.0 Component D – 8.0
<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><u>10. Stability and Reactivity</u></b>	
<i>Thermal Decomposition</i>	Not applicable
<i>Dangerous Products of Decomposition</i>	Not applicable
<i>Dangerous Reactions</i>	Not applicable
<b><u>11. Toxicological Information</u></b>	
<i>RTECS Number</i>	Component A: PV6210000 Component B: PV6210000 Component C: N/A Component D: PV6210000 Component E: N/A
<i>Toxicity</i>	<i>Component A, Component B and Component D contain DMSO.</i> <i>For DMSO</i> Oral LD50 LD50 Oral - rat - 14,500 mg/kg

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	Inhalation LC50 LC50 Inhalation - rat - 4 h - 40250 ppm Dermal LD50 LD50 Dermal - rabbit - > 5,000 mg/kg <i>Component C and Component E</i> Not Applicable
<i>Health Hazards</i>	No data available
<i>Potential Hazards</i>	<b>Potential Health Effects</b> <i>Inhalation:</i> May be harmful if inhaled. Causes respiratory tract irritation. <i>Ingestion:</i> Harmful if swallowed. <i>Skin:</i> May be harmful if absorbed through skin. May cause skin irritation. <i>Eyes:</i> Causes eye irritation.
<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>	
<i>For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (Component A, B and D contain DMSO)</i>	
<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	
<i>Components C and E</i>	
No data available	
<i>Components A, B, C, D and E</i>	
<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><u>13. Disposal Considerations</u></b>	
<i>For Components A, B, C, D, and E</i>	
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.	
<b>Contaminated packaging</b>	
Dispose of as unused product.	
<b><u>14. Transport Information: IATA Exempted quantities labeling</u></b>	
<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>15. Regulatory information</b>	
California Proposition 65	N/A
US TSCA (Toxic Substance Control Act)	Component <b>A</b> : Listed Component <b>B</b> : Listed Component <b>C</b> : Not Listed Component <b>D</b> : Listed Component <b>E</b> : Not Listed
US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)	Component <b>A</b> : 261.33 8(d). Component <b>B</b> : 261.33 8(d). Component <b>C</b> : N/A Component <b>D</b> : 261.33 8(d). Component <b>E</b> : N/A
US SARA Title III	Component <b>A</b> SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard 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: N/A Component <b>D</b> SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Fire Hazard, Chronic 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>
US Clean Water Act	Components <b>A, B, C, D, and E</b> <i>Listed under "Hazardous Substances": Not listed</i> <i>Listed under "Priority Pollutants": Not listed</i> <i>Listed under "Toxic Pollutants": Not listed</i>

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

<b>Component A:</b>	<b>Component B:</b>	<b>Component C:</b>	<b>Component D:</b>	<b>Component E:</b>
Pennsylvania Revision Date 2007-03-01 CAS 67-68-5	Pennsylvania Revision Date 2007-03-01 CAS 67-68-5	Pennsylvania N/A	Pennsylvania Revision Date 2007-03-01 CAS 67-68-5	Pennsylvania N/A
New Jersey Revision Date 2007-03-01 CAS 67-68-5	New Jersey Revision Date 2007-03-01 CAS 67-68-5	New Jersey N/A	New Jersey Revision Date 2007-03-01 CAS 67-68-5	New Jersey N/A
Massachusetts N/A	Massachusetts N/A	Massachusetts N/A	Massachusetts N/A	Massachusetts N/A

**European/International Regulations:**

	<b>Component A:</b>	<b>Component B:</b>	<b>Component C:</b>	<b>Component D:</b>	<b>Component E:</b>
EC EINECS	200-664-3	200-664-3	N/A	200-664-3	N/A
EC Risk statements	36/37/38	36/37/38	36/37/38	36/37/38	36/37/38
WGK	1	1	0	1	1
Canada- DSL/NDSL	Listed	Listed	Not Listed	Listed	Not Listed
Canada- WHMIS classification	D2B	D2B	N/A	D2B	N/A
Canada- Canadian Ingredient Disclosure List	Listed	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.

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