

Safety Data Sheet (SDS)

<i>Revision Number: 1.1</i>	<i>Last updated: April 2015</i>
<u>1. Product and Company Identification</u>	
<i>Product Name:</i>	SensoLyte® Rh110 Plasmin Activity Assay Kit * Fluorimetric*
<i>Manufacturer/Supplier:</i>	AnaSpec, Inc. www.anaspec.com 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572 Email: service@anaspec.com
<i>Catalog Number</i>	AS-72125
<i>Unit Size</i>	1 kit
<u>2. Hazards Identification</u>	
<i>Emergency Overview:</i>	
<i>GHS Hazard Classification:</i>	
<i>GHS Physical Hazards</i>	
<ul style="list-style-type: none"> 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 	
<i>GHS Health and Environmental Hazards</i>	
<ul style="list-style-type: none"> 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 sever skin burns and eye damage May cause damage to organs 	
<i>GHS Signal Words:</i>	
<ul style="list-style-type: none"> Component A: Warning Component B: Warning Component C: Void Component D: Void Component E: Warning Component F: Danger 	
<i>GHS Hazard Statements:</i>	
<ul style="list-style-type: none"> Component A: H227 Combustible liquid Component B: H227 Combustible liquid 	

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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:

Component A:	Component B:	Component C:	Component D:	Component E:	Component F:
<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 3</i>
<i>Flammability: 2</i>	<i>Flammability: 2</i>	<i>Flammability: 0</i>	<i>Flammability: 0</i>	<i>Flammability : 2</i>	<i>Flammability : 0</i>
<i>Physical hazard: 0</i>	<i>Physical hazard: 0</i>	<i>Physical hazard: 0</i>	<i>Physical hazard: 0</i>	<i>Physical hazards: 0</i>	<i>Physical hazards: 0</i>

NFPA Rating:

Component A:	Component B:	Component C:	Component D:	Component E:	Component F:
<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 3</i>
<i>Fire: 2</i>	<i>Fire: 2</i>	<i>Fire: 0</i>	<i>Fire: 0</i>	<i>Fire: 2</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>	<i>Reactivity hazard: 0</i>

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

<i>Chemical Name:</i>	<i>Description</i>	<i>CAS Number:</i>
Component A	Contains DMSO	67-68-5
Component B	Contains DMSO	67-68-5
Component C	Proprietary	N/A
Component D	Proprietary	NA
Component E	Contains DMSO	67-68-5
Component F	Contains HCl	7647-01-0

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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 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

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

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<u>6. Accidental Release Measures</u>	
<i>Containment and spill response</i>	<p>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.</p> <p>Component C: Absorb liquid with paper towels. Wipe working surfaces to dryness, and then wash with soap and water.</p> <p>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</p> <p>Component F: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.</p>
<i>PPE</i>	Use personal protective equipments
<u>7. Handling and Storage</u>	
<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	
<u>8. Exposure Controls / Personal Protection</u>	
<i>Engineering controls</i>	<p>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.</p> <p>Component C: Wear suitable protective clothing, including gloves, safety glasses, dust mask, and a laboratory coat.</p> <p>Component D: Wear suitable protective clothing, including gloves, safety glasses, dust mask,</p>

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	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.
<i>PPE</i>	Wear suitable protective clothing, including gloves, safety glasses, dust mask, and a laboratory coat.
<u>9. Physical and Chemical Properties</u>	
<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: pH 7.3 Component D: pH 7.4 Component F: pH 0.7
<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
<u>10. Stability and Reactivity</u>	
<i>Thermal Decomposition</i>	Not applicable
<i>Dangerous Products of Decomposition</i>	Not applicable
<i>Dangerous Reactions</i>	Not applicable
<u>11. Toxicological Information</u>	
<i>RTECS Number</i>	Component A: PV6210000 Component B: PV6210000 Component C: N/A Component D: N/A Component E: PV6210000 Component F: MW4025000
<i>Toxicity</i>	<i>Component A, Component B and Component E contains DMSO.</i> <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 <i>Component F contains HCl.</i> <i>For hydrochloric acid</i> LD50 Oral - rabbit - 900 mg/kg (Hydrochloric acid)

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	LC50 Inhalation - rat - 1 h - 3124 ppm (Hydrochloric acid)
<i>Health Hazards</i>	<i>No data available</i>
<i>Potential Hazards</i>	Component F Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion May be harmful if swallowed. Causes burns. Skin May be harmful if absorbed through skin. Causes skin burns. Eyes Causes eye burns.
<i>Carcinogenicity:</i>	No applicable
<i>OSHA Permissible Exposure Limit(PEL)</i>	No data available
<i>Data</i>	
<i>ACGIH Threshold Limit Values (TLV)</i>	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

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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

<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

15. Regulatory information

<i>California Proposition 65:</i>	Not listed
<i>US TSCA (Toxic Substance Control Act):</i>	Component A : Listed Component B : Listed Component C : N/A Component D : N/A Component E : Listed Component F : Listed
<i>US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):</i>	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

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	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 <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> Component F <i>Listed under Hazardous Air Pollutants: 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 A, B, C, D and E Listed under "Hazardous Substances": <i>Not listed</i> <i>Listed under "Priority Pollutants": Not listed</i> Listed under "Toxic Pollutants": <i>Not listed</i> Component F Listed under "Hazardous Substances": <i>Listed</i> <i>Listed under "Priority Pollutants": Not listed</i> <i>Listed under "Toxic Pollutants": Not listed</i>

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

Component A	Component B	Component C	Component D	Component E	Component F
Pennsylvania Revision Date 2007-03-01	Pennsylvania Revision Date 2007-03-01	N/A	N/A	Pennsylvania Revision Date 2007-03-01	Massachusetts Revision Date 1993-04-24
New Jersey Revision Date 2007-03-01	New Jersey Revision Date 2007-03-01	N/A	N/A	New Jersey Revision Date 2007-03-01	Pennsylvania Revision Date 1993-04-24
N/A	N/A	N/A	N/A	N/A	New Jersey Revision Date 1993-04-24

European/International Regulations:

	Component A	Component B	Component C	Component D	Component E	Component F
<i>EC ENINCS</i>	200-664-3	200-664-3	N/A	N/A	200-664-3	231-595-7
<i>EC Risk statements</i>	36/37/38	36/37/38	N/A	N/A	36/37/38	34-37
<i>WGK</i>	1	1	N/A	N/A	1	1
<i>Canada-DSL/NDL</i>	Listed	Listed	Not listed	Not listed	Listed	Listed
<i>Canada-WHMIS classification</i>	D2B	D2B	N/A	N/A	D2B	E, D1A
<i>Canada-Canadian Ingredient Disclosure List</i>	Listed	Listed	Not listed	No listed	Listed	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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