

Safety Data Sheet (SDS)

<i>Revision Number: 1.2</i>	<i>Last updated: April 2015</i>
<u>1. Product and Company Identification</u>	
<i>Product Name:</i>	SensoLyte[®] ADHP Peroxidase 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-71111
<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: Oxidizing solids (Category 3), Skin corrosion (Category 1B), Serious eye damage (Category 1) Component C: Not applicable 	
<i>GHS Health and Environmental Hazards</i>	
<ul style="list-style-type: none"> Component A and C: Irritant to eyes and skin Component B: Causes severe skin burns and eye damage 	
<i>GHS Signal Words:</i>	
<ul style="list-style-type: none"> Component A and C: Warning Component B: Danger 	
<i>GHS Hazard Statements:</i>	
<ul style="list-style-type: none"> Component A: H227 Combustible liquid Component B: H272 May intensify fire; oxidizer. H314 Causes severe skin burns and eye damage. Component C: H316 Causes mild skin irritation. H320 Causes eye irritation. 	
<i>GHS Precautionary Statements:</i>	
<ul style="list-style-type: none"> Component A: None Component B: P220 Keep/Store away from clothing/ combustible materials. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/ physician. Component C: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 	

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HMIS Classification:

Component A:	Component B:	Component C:
<i>Health hazard: 0</i>	<i>Health hazard: 3</i>	<i>Health hazard: 1</i>
<i>Flammability: 2</i>	<i>Flammability: 0</i>	<i>Flammability: 0</i>
<i>Physical hazards: 0</i>	<i>Physical hazards: 1</i>	<i>Physical hazards: 0</i>

NFPA Rating:

Component A:	Component B:	Component C:
<i>Health hazard: 0</i>	<i>Health hazard: 3</i>	<i>Health hazard: 1</i>
<i>Fire: 2</i>	<i>Fire: 0</i>	<i>Fire: 0</i>
<i>Reactivity hazard: 0</i>	<i>Reactivity hazard: 1</i>	<i>Reactivity hazard: 0</i>

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 Urea hydrogen peroxide	124-43-6
Component C	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

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: Take off contaminated clothing and shoes immediately. 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. Continue rinsing eyes during transport to hospital.

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.

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5. Fire Fighting Measures	
<i>Extinguishing media:</i>	<p>Component A: For small fires, use dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance.</p> <p>Component B, C: Use water spray, dry chemical or carbon dioxide.</p>
<i>Special firefighting procedures:</i>	<p>Component A: Fire fighters should wear positive pressure self-contained breathing apparatus and full turnout gear.</p> <p>Component B, C: Wear self-contained breathing apparatus (SCBA) if necessary.</p>
<i>Unusual fire and explosions hazards:</i>	<p>Component A: 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 B: Hazardous carbon oxides and nitrogen oxides (NOx) formed under fire conditions.</p> <p>Component C: Hazardous oxides of phosphorus, hydrogen chloride gas, potassium oxides and sodium oxides formed under fire conditions.</p>
6. Accidental Release Measures	
<i>Containment and spill response</i>	<p>Component A: 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.</p> <p>Component B: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal. Keep in suitable, closed containers for disposal.</p> <p>Component C: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. Do not let product enter drains. Keep in suitable, closed containers for disposal.</p>
<i>PPE</i>	Use personal protective equipment
7. Handling and Storage	
<p>Component A: <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.</p> <p>Component B: <i>Handling:</i> Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition – No smoking. Keep away from heat and sources of ignition. Normal measures for preventive fire protection. <i>Storage:</i> Keep container tightly closed in a dry and well-ventilated place. Air, light, and moisture sensitive.</p>	

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Component C: <i>Handling:</i> Avoid contact with skin and eyes. <i>Storage:</i> Keep container tightly closed in a dry and well-ventilated place.	
8. Exposure Controls / Personal Protection	
<i>Engineering controls</i>	Component A and B: Facilities storing and using this material should be equipped with a safety shower and eyewash station. Adequate ventilation should also be present. Component C: Not applicable.
<i>PPE</i>	Component A and 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. Component C: Not applicable.
9. Physical and Chemical Properties	
<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 – 7.4
<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
10. Stability and Reactivity	
<i>Thermal Decomposition</i>	Not applicable
<i>Dangerous Products of Decomposition</i>	Not applicable
<i>Dangerous Reactions</i>	Not applicable
11. Toxicological Information	
<i>RTECS Number</i>	Component A: PV6210000 Component B: MX0900000 Component C: N/A
<i>Toxicity</i>	<i>Component A contains DMSO.</i> 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

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	<p><i>Component B:</i> No data available</p> <p><i>Component C:</i> No data available</p>
<i>Health Hazards</i>	No data available
<i>Potential Hazards</i>	<p>Potential Health Effects</p> <p><i>Inhalation:</i> May be harmful if inhaled. Causes respiratory tract irritation.</p> <p><i>Ingestion:</i> Harmful if swallowed.</p> <p><i>Skin:</i> May be harmful if absorbed through skin. May cause skin irritation.</p> <p><i>Eyes:</i> Causes eye irritation.</p> <p>Aggravated Medical Condition: Avoid contact with DMSO solutions containing toxic materials or materials with unknown toxicological properties. Dimethyl sulfoxide is readily absorbed through skin and may carry such materials into the body.</p>
<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
<u>12. Ecological Information</u>	
<i>For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (Component A contains DMSO)</i>	
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	
<i>Component B and C</i>	
No data available	
<u>13. Disposal Considerations</u>	
<i>For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (Components A)</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.	
Contaminated packaging	
Dispose of as unused product.	
<u>14. Transport Information:</u>	
<i>UN Number</i>	N/A
<i>Hazard Class</i>	N/A
<i>Packing Group</i>	N/A
<i>Proper Shipping Name (DOT)</i>	N/A

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15. Regulatory information		
<i>California Proposition 65:</i>	N/A	
<i>US TSCA (Toxic Substance Control Act):</i>	Component A and B: Listed Component C: Not listed	
<i>US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):</i>	Component A: 261.33 8(d). Component B and C: Not listed	
<i>US SARA Title III</i>	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: Reactivity Hazard, Acute Health Hazard Component C SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard	
<i>US Clean Air Act:</i>	Component A, B, C Listed under Hazardous Air Pollutants: Not listed Listed under Class 1 Ozone Depletors: Not listed Listed under Class 2 Ozone Depletors: Not listed	
<i>US Clean Water Act:</i>	Components A, B, C Listed under "Hazardous Substances": Not listed Listed under "Priority Pollutants": Not listed Listed under "Toxic Pollutants": Not listed	
<i>US States: Right-to-Know: Listed in the following States:</i>		
Component A:	Component B:	Component C:
Pennsylvania Revision Date 2007-03-01 67-68-5	Pennsylvania Revision Date 1989-12-01	Pennsylvania Revision Date N/A
New Jersey Revision Date 2007-03-01 67-68-5	New Jersey Revision Date 1989-12-01	New Jersey Revision Date N/A
Massachusetts N/A	Massachusetts N/A	Massachusetts Revision Date N/A

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European/International Regulations:

	Component A:	Component B:	Component C:
EC EINICS	200-664-3	204-701-4	N/A
<i>EC Risk statements</i>	36/37/38	N/A	N/A
<i>WGK</i>	1	1	N/A
<i>Canada-DSL/NDSL</i>	Listed	Not listed	Not listed
<i>Canada- WHMIS classification</i>	D2B	C, E	N/A
<i>Canada- Canadian Ingredient Disclosure List</i>	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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