

Safety Data Sheet (SDS)

<i>Revision Number: 1.2</i>	<i>Last updated: August 2017</i>
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1. Product and Company Identification

<i>Product Name:</i>	SensoLyte[®] 520 Thiol Quantitation 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-72138
<i>Unit Size</i>	1 kit

2. Hazards Identification

Emergency Overview:

GHS Hazard Classification:

GHS Physical Hazards

- Component A and C: Not Applicable
- Component B: Acute toxicity, Oral (Category 5)
- Component D: Flammable liquid (Category 4)

GHS Health and Environmental Hazards

- Component A: Not Applicable
- Component B: Irritant to eyes and skin, acute toxicity, oral
- Component C and D: Irritant to eyes and skin

GHS Signal Words:

- Component A: Not Applicable
- Other components: Warning

GHS Hazard Statements:

- Component A: None
- Component B: H303 May be harmful if swallowed
- Component C: H302 Harmful if swallowed
- Component D: H227 Combustible liquid

GHS Precautionary Statements: None

HMIS Classification:

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

NFPA Rating:

Component A:	Component B:	Component C:	Component D:
<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 0</i>
<i>Fire: 0</i>	<i>Fire: 0</i>	<i>Fire: 0</i>	<i>Flammability: 2</i>
<i>Reactivity hazard: 0</i>	<i>Reactivity hazard: 0</i>	<i>Reactivity hazard: 0</i>	<i>Physical hazards: 0</i>

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

<i>Chemical Name:</i>	<i>Description</i>	<i>CAS Number:</i>
Component A	Proprietary	N/A
Component B	Contains GSH	70-18-8
Component C	Proprietary	N/A
Component D	DMSO	67-68-5

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: Not Applicable

Component B,C and 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.

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5. Fire Fighting Measures	
<i>Extinguishing media:</i>	<p>Component A and C: Not Applicable</p> <p>Component B: Use alcohol-resistant foam, dry chemical, carbon dioxide, or water spray.</p> <p>Component D: For small fires, use alcohol resistant foam, dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance.</p>
<i>Special firefighting procedures:</i>	<p>Component A and C: Not Applicable</p> <p>Component B: Wear self-contained breathing apparatus (SCBA) if necessary.</p> <p>Component D: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.</p>
<i>Unusual fire and explosions hazards:</i>	<p>Component A and C: Not Applicable</p> <p>Component B: Hazardous carbon oxides, nitrogen oxides, and sulfur oxides formed under fire conditions.</p> <p>Component 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.</p>
6. Accidental Release Measures	
<i>Containment and spill response</i>	<p>Component A and C: Not Applicable</p> <p>Component B: Do not let material enter drains. Keep in suitable, closed container for disposal.</p> <p>Component D: Soak up with inert absorbent material</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. <i>Storage:</i> Store in a tightly closed container away from moisture, heat, and flame. Store away from incompatible substances.</p> <p>Component B <i>Handling:</i> Avoid contact with skin and eyes. <i>Storage:</i> Keep container tightly closed in a dry and well-ventilated place.</p> <p>Component C: Not Applicable</p> <p>Component D: <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</p>	

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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.

8. Exposure Controls / Personal Protection

<i>Engineering controls</i>	Facilities storing and using this material should be equipped with a safety shower and eyewash station. Adequate ventilation should also be present.
<i>PPE</i>	<i>Skin and Body:</i> Wear appropriate work uniform or laboratory coat to prevent skin exposure. <i>Hands:</i> Handle with gloves. Appropriate techniques should be used to remove potentially contaminated gloves. <i>Eyes:</i> Wear safety glasses

9. Physical and Chemical Properties

<i>Physical State</i>	Component A:Liquid Other Components: Solid
<i>Odo</i>	Not determined
<i>Solubility in Water</i>	Soluble
<i>Specific Gravity</i>	Not determined
<i>pH</i>	Component C – pH 8.2
<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: NA Component B: MC0556000 Component C: NA Component D: PV6210000
<i>Toxicity</i>	<i>Component D 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

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	LD50 Dermal - rabbit - > 5,000 mg/kg
<i>Health Hazards</i>	<i>No data available</i>
<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>	
For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (Component D 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	
<u>13. Disposal Considerations</u>	
For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (Component D)	
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: IATA exempted quantities labeling</u>	
<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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15. Regulatory information				
<i>California Proposition 65:</i>		N/A		
US TSCA (Toxic Substance Control Act):		Component A and C : Listed Component B and D : Not Listed		
<i>US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):</i>		Component D : 261.33 8(d). Other Components: NA		
US SARA Title III		Component D SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard Other Components: SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: N/A		
US Clean Air Act:		All Components: <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>		
<i>US Clean Water Act:</i>		All Components: Listed under "Hazardous Substances": Not listed <i>Listed under "Priority Pollutants": Not listed</i> Listed under "Toxic Pollutants": Not listed		
<i>US States: Right-to-Know: Listed in the following States:</i>				
Component A:	Component B:	Component C:	Component D:	
Pennsylvania Revision Date <i>N/A</i>	Pennsylvania Revision Date <i>N/A</i>	Pennsylvania Revision Date <i>N/A</i>	Pennsylvania Revision Date 2007-03-01	
New Jersey Revision Date <i>N/A</i>	New Jersey Revision Date <i>N/A</i>	New Jersey Revision Date <i>N/A</i>	New Jersey Revision Date 2007-03-01	
<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	
European/International Regulations:				
	Component A	Component B	Component C	Component D
EC EINICS	N/A	200-725-4	N/A	200-664-3
<i>EC Risk statements</i>	N/A	36/37/38	N/A	36/37/38
WGK	N/A	1	N/A	1
<i>Canada-DSL/NDSL</i>	Not listed	Listed	Not listed	Listed
<i>Canada-WHMIS classification</i>	N/A	Non-controlled	N/A	D2B
<i>Canada-Canadian Ingredient Disclosure List</i>	Not listed	Not determined	Not listed	Listed

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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.

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