

Material Safety Data Sheet (MSDS)

Revision Number: 1.0		Last updated: February 2012	
<u>1. Product and Company Identification</u>			
Product Name:		SensoLyte® MMP-8 ELISA Kit “Colorimetric”	
Manufacturer/Supplier:		AnaSpec, Inc. www.anaspec.com 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572 Email: service@anaspec.com	
Catalog Number		72104	
Unit Size		1 kit	
<u>2. Hazards Identification</u>			
<p><i>Emergency Overview:</i></p> <p><i>GHS Hazard Classification:</i></p> <p><i>GHS Physical Hazards :</i></p> <p style="padding-left: 40px;">Component H: Corrosive</p> <p style="padding-left: 40px;">Other components: Not Applicable</p> <p><i>GHS Health and Environmental Hazards</i></p> <p style="padding-left: 40px;">Component A: Not Applicable</p> <p style="padding-left: 40px;">Component B: Irritant to eyes</p> <p style="padding-left: 40px;">Component C: Not Applicable</p> <p style="padding-left: 40px;">Component D: Irritant to eyes</p> <p style="padding-left: 40px;">Component E: Not applicable</p> <p style="padding-left: 40px;">Component F: Irritant to eyes</p> <p style="padding-left: 40px;">Component G: Irritant to eyes</p> <p style="padding-left: 40px;">Component H: Skin corrosion (Category 1A)</p> <p style="padding-left: 80px;">Serious eye damage (Category 1)</p> <p style="padding-left: 80px;">Acute aquatic toxicity (Category 3)</p> <p><i>GHS Signal Words:</i></p> <p style="padding-left: 40px;">Component H: Danger</p> <p style="padding-left: 40px;">Other components: Not Applicable</p> <p><i>GHS Hazard Statements:</i></p> <p style="padding-left: 40px;">Component A: Not Applicable</p> <p style="padding-left: 40px;">Component H: H314 Causes severe skin burns and eye damage.</p> <p style="padding-left: 80px;">H402 Harmful to aquatic life</p> <p style="padding-left: 40px;">Other Components: H303 May be harmful if swallowed.</p>			

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GHS Precautionary Statements:

Component H: - 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.

Other components: -None

HMIS Classification:

Component H: Health Hazard:3
Flammability: 0
Physical hazards: 2

Other components: Health Hazard: 0
Flammability: 0
Physical hazards: 0

NFPA Rating:

Component H: Health Hazard:3
Fire: 0
Reactivity hazard: 0

Other components: Health Hazard:3
Fire: 0
Reactivity hazard: 0

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

Chemical Name:	Description	CAS Number:
Component A	MMP-1 coated plate	N/A
Component B	Proprietary	N/A
Component C	Human MMP-1	N/A
Component D	Proprietary	N/A
Component E	Proprietary	N/A
Component F	Proprietary	N/A
Component G	Proprietary	NA
Component H	0.2 M Sulfuric acid	7664-93-9

4. First Aid Measures**Component A, B, C, D, E,F and G:**

Inhalation: If breathed in, move person into fresh air. Clear nose by blowing.

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Ingestion: Flush out the mouth with water and drink copious amounts of fresh water. Seek medical advice.
Skin: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.
Eyes: Rinse thoroughly with plenty of water for at least 15 minutes.

Component H

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.

5. Fire Fighting Measures

<i>Extinguishing media:</i>	<p>Component A, B, C, D, E, F and G: Water spray, carbon dioxide, dry chemical powder or appropriate foam. Prevent contact with skin and eyes.</p> <p>Component H: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</p>
<i>Special firefighting procedures:</i>	<p>Component A, B, C, D, E, F and G: Not applicable.</p> <p>Component H: Wear self-contained breathing apparatus for firefighting if necessary.</p>
<i>Unusual fire and explosions hazards:</i>	<p>Component A, B, C, D, E, F and G: Not applicable.</p> <p>Component H: Hazardous decomposition products formed under fire conditions - Sulphur oxides</p>

6. Accidental Release Measures

<i>Containment and spill response</i>	<p>Component A, B, C, D, E, F and G: Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Spilled material should be carefully wiped up with water and removed.</p> <p>Component H: <i>Personal precautions:</i> Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. <i>Environmental precautions:</i> Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. If necessary, neutralize with dilute acetic acid. Use appropriate equipment to place in appropriate waste disposal container. Spread water on contaminated surface and dispose of according to local and regional requirements.</p>
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<i>PPE</i>	Use personal protective equipment
<u>7. Handling and Storage</u>	
Component A, B, C, D, E, F and G: Upon receipt, keep the components at -20C.	
Component H	
<i>Handling:</i> Avoid inhalation of vapor or mist.	
<i>Storage:</i> 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.	
<u>8. Exposure Controls / Personal Protection</u>	
<i>Engineering controls</i>	Safety shower and eye bath, mechanical exhaust required. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid inhalation. Avoid contact with eyes, skin and clothing. Store as indicated on product label. Avoid prolonged or repeated exposure.
<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>	Component A: Solid Other components: Liquid
<i>Odo</i>	Not determined
<i>Solubility in Water</i>	Soluble
<i>Specific Gravity</i>	Not determined
<i>pH</i>	Component H: 1.5
<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>	Not available
<i>Toxicity</i>	Oral LD50 No data available

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	Inhalation LC50 No data available Dermal LD50 No data available Other information on acute toxicity No data available
<i>Health Hazards</i>	<i>No data available</i>
<i>Potential Hazards</i>	Component H 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. Skin May be harmful if absorbed through skin. Causes skin burns. Eyes Causes eye burns. Causes severe eye burns.
<i>Carcinogenicity:</i>	Component H IARC: 1 - Group 1: Carcinogenic to humans (Sulfuric acid) ACGIH: No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: Known to be human carcinogen (Sulfuric acid) OSHA: No component of this product present at levels
<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> Toxicity no data available 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 An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	

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13. Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide buildup in drains.

14. Transport Information: IATA Exempted quantities labeling

<i>UN Number</i>	N/A
<i>Hazard Class</i>	3
<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							
California Proposition 65:			Component H: WARNING! This product contains a chemical known to the State of California to cause cancer.				
US TSCA (Toxic Substance Control Act):			Component H : Listed				
US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):			Component H :Listed				
US SARA Title III			Component A, B, C, D, E ,F and G SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: N/A Component H SARA 302 components: Listed SARA 313 components: Listed SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard				
US Clean Air Act:			Component A, B, C, D, E F, G and H <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 A, B, C, D, E, F and G Listed under “Hazardous Substances”: Not listed <i>Listed under “Priority Pollutants”: Not listed</i> Listed under “Toxic Pollutants”: Not listed Component H Listed under “Hazardous Substances”: Listed <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:	Component G:	Component H:
N/A	N/A	N/A	N/A	N/A	N/A	N/A	Pennsylvania Revision date 2007-07-01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	New Jersey Revision date 2007-07-01
N/A	N/A	N/A	N/A	N/A	N/A	N/A	Massachusetts Revision Date 2007-07-01

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European/International Regulations:

	<i>Component A:</i>	<i>Component B:</i>	<i>Component C:</i>	<i>Component D:</i>	<i>Component E:</i>	<i>Component F:</i>	<i>Component G:</i>	<i>Component H:</i>
EC EINICS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	231-639-5
<i>EC Risk statements</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	36
<i>WGK</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2
<i>Canada-DSL/NDL</i>	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Listed
<i>Canada-WHMIS classification</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D2A, D1A, E
<i>Canada-Canadian Ingredient Disclosure List</i>	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not 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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