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Product Name: SensoLyte [®] 520 MMP-13 Assay Kit * Fluorimetric* Manufacturer/Supplier: AnaSpec, Inc. Www.anaspec.com 34801 Campus Drive Fremont, CA 94555 Fel: 510-791-9560 Fax: 510-791-9560 Fax: 510-791-9572 Email: service@anaspec.com Catalog Number AS-71156 Unit Size Unit Size I kit 2. Hazards Identification Emergency Overview: CHS Hazard Classification: GHS Hazard Classification: GHS Hazard Classification: Gomponent A,B,C: Flammable liquid (Category 4) Component D,E: Not Applicable Component D,E: Not Applicable GHS Health and Environmental Hazards Component C: Irritant to eyes and skin Component C: Irritant to eyes and skin Component D: Irritant to eyes and skin Component E: Skin irritant GHS Signal Words: Component A,B,D,E: Warning Component C: Danger GHS Hazard Statements: Component A,B: H227 Combustible liquid Component C: H300 + H310 Fatal if swallowed or in contact with skin. H330 Fatal if inhaled. Component D: H302 Harmful if swallowed. Component E: H303 May be harmful if swallowed.	1 Product and Company Identifie	notion
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H330 Fatal if inhaled. Component D: H302 Harmful if swallowed. Component E: H303 May be harmful if swallowed. H319 Causes serious eye irritation.		
Component D: H302 Harmful if swallowed. Component E: H303 May be harmful if swallowed. H319 Causes serious eye irritation.	Component	
Component E: H303 May be harmful if swallowed. H319 Causes serious eye irritation.	Component	
H319 Causes serious eye irritation.	-	
	-	•
H402 Harmful to aquatic life.	J	
CUE Due a most i an anna Stant ann an tai	CHC Dress and in a State	H402 Harmful to aquatic life.
	GHS Precautionary Statements:	A P.D. Nono
Component A,B,D: - None	-	
Component C: P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash hands thoroughly after handling.	Component	

	P280 Wear protective gloves/protective clothing.
	P284 Wear respiratory protection.
	P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.
	P310 Immediately call a POISON CENTER or doctor/physician
Component E:	P264 Wash skin thoroughly after handling.
-	P273 Avoid release to the environment.
	P280 Wear protective gloves/eye protection/face protection.
	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water.
	Remove contact lenses, if present and easy to do. Continue rinsing.
	P312 Call a POISON CENTER or doctor/physician if you feel unwell.
	P337 + P313 If eye irritation persists: Get medical advice/attention.
	P501 Dispose of contents/container to an approved waste disposal plant.

HMIS Classification:

Component A:	Component B:	Component C:	Component D:	Component E:
Health hazard: 0	Health hazard: 0	Health hazard: 4	Health hazard: 0	Health hazard: 2
Flammability: 2	Flammability: 2	Flammability: 2	Flammability: 0	Flammability: 0
Physical hazards: 0				

NFPA Rating:

Component A:	Component B:	Component C:	Component D:	Component E:
Health hazard: 0	Health hazard: 0	Health hazard: 4	Health hazard: 0	Health hazard: 2
Fire: 2	Fire: 2	Fire: 2	Fire: 0	Fire: 0
Reactivity hazard: 0				

3. Composition / Information on Ingredients

Ingredients/Components:

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Chemical Name:	Description	CAS Number:
Component A	Contains DMSO	67-68-5
Component B	Contains DMSO	67-68-5
Component C	Contains APMA and DMSO	6283-24-5 and 67-68-5
Component D	Proprietary	NA
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

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

0011-0011	
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. Take victim immediately to hospital. Consult a physician.
Eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during Eyes: transport to hospital. 5. Fire Fighting Measures Extinguishing media: **Component A and B:** For small fires, use alcohol resistant foam, dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance. **Component C:** Use alcohol-resistant foam, dry chemical, carbon dioxide, or water spray. **Component D and E:** Not applicable Special firefighting procedures: Component A and B: Fire fighters should wear positive pressure selfcontained breathing apparatus (SCBA) and full turnout gear. **Component C:** Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. **Component D,E:** Not applicable Unusual fire and explosions hazards: **Component A and 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. Component C: Avoid breathing dust. 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. Component D and E: Not applicable

6. Accidental Release Measures

Component D,E

Containment and spill	Component A and B: Immediately contact emergency personnel. Prevent further
response	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.
	Component C: Wear respiratory protection and provide adequate ventilation. Avoid
	dust formation and inhalation. Prevent further leakage or spillage if safe to do so. Pick
	up and arrange for disposal without creating dust. Store in tightly closed container for
	disposal. Do not let material enter drains or discharge into the environment.

	Component D: Not applicable
	Component E: 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.
PPE	Use personal protective equipment

7 . Handling and Storage

Component A and B

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.

Component C

Handling: Avoid contact with skin and eyes. Prevent formation of dust and aerosols and provide adequate ventilation.

Storage: Store in a tightly closed container in a dry well-ventilated area.

Component D: Not applicable

Component E:

Handling: Do not ingest or inhale.

Storage: Store in a tightly closed container in a cool, well-ventilated area. Keep away from sources of ignition. Keep away from incompatible materials such as oxidizers and metals.

8. Exposure Controls / Personal Protection

Engineering controls	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: Facilities storing and using this material should be equipped with a safety
	shower and eyewash station. Adequate ventilation should also be present.
	Component D: Not applicable
	Component E: Use process enclosures, local exhaust ventilation, or other engineering
	controls to keep airborne levels below recommended exposure limits. If user operations
	generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants
	below the exposure limit.
PPE	Component A and B
	Respiratory System: 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.
	Skin and Body: Wear appropriate work uniform or laboratory coat to prevent skin exposure.
	Hands: Use chemical resistant, impervious gloves. Appropriate techniques should be used
	to remove potentially contaminated gloves.
	<i>Eyes:</i> Wear chemical splash goggles.
	Component C

Respiratory System: Use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin and Body: Wear appropriate work uniform or laboratory coat to prevent skin exposure. *Hands:* Use chemical resistant, impervious gloves. Appropriate techniques should be used to remove potentially contaminated gloves.

Eyes: Handle with face shield and safety glasses.

Component D: Not applicable

Component E:

Respiratory System: Use an approved/certified dust respirator.

Skin and Body: Wear appropriate work uniform or laboratory coat to prevent skin exposure. *Hands:* Use chemical resistant, impervious gloves. Appropriate techniques should be used to remove potentially contaminated gloves.

Eyes: Handle with safety glasses.

9. Physical and Chemical Properties

Physical State	Liquid	
Odo	Not determined	
Solubility in Water	Soluble	
Specific Gravity	Not determined	
pН	Component D –7.5	
	Component E -8	
Boiling Point	Not determined	
Melting Point	Not determined	
Flash Point	Not determined	
Vapor Pressure:	Not determined	
Vapor Density:	Not determined	

10.Stability and Reactivity

To.Stability and Reactivity		
Thermal Decomposition	Not applicable	
Dangerous Products of Decomposition	Not Applicable	
Dangerous Reactions	Not Applicable	
11.Toxicological Information		
RTECS Number	Component A: PV6210000	
	Component B: PV6210000	
	Component C: OV5550000	
	Component D: NA	
	Component E: NA	
Toxicity	Component A, Component B and Component C contains DMSO.	
	For DMSO	
	Oral LD50	
	LD50 Oral - rat - 14,500 mg/kg	
	Inhalation LC50	

Γ	I C50 Inholotion not 4 h 40250 mm	
LC50 Inhalation - rat - 4 h - 40250 ppm Dermal LD50		
	LD50 Dermal - rabbit - > 5,000 mg/kg	
	Component C contains APMA	
	For APMA	
	LD50 Intravenous - mouse - 18 mg/kg	
	LD50 muavenous - mouse - 18 mg/kg	
Health Hazards	No data available	
Potential Hazards	Potential Health Effects	
	Component C	
	Inhalation May be fatal if inhaled. May cause respiratory tract irritation.	
	Skin May cause skin irritation. May be fatal if absorbed through skin.	
	Eyes May cause eye irritation.	
	Ingestion May be fatal if swallowed.	
~	Target Organs Kidney, Nerves.	
Carcinogenicity:	No data available	
OSHA Permissible Exposure Limit(PEL)	No data available	
Data	No data available	
ACGIH Threshold Limit Values (TLV)		
<u>12. Ecological Information</u>		
	7-68-5 (Component A, B and C contains DMSO)	
Toxicity		
Toxicity to fish LC50 - Pimephales promelas		
LC50 - Oncorhynchus mykiss (rainbow trout		
	brates. EC50 - Daphnia pulex (Water flea) - 27,500 mg/l	
Toxicity to algae EC50 - Lepomis macrochir Persistence and degradability	JS(DIUEgIII) - > 400,000 IIIg/1 - 90 II	
No data available		
Bioaccumulative potential		
No data available		
Mobility in soil		
No data available		
No data available PBT and vPvB assessment		
No data available		
Other adverse effects		
No data available		
For 4-Aminophenylmercury acetate, CAS-No	D. 6283-24-5, (Component C)	
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.		
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		

13. Disposal Considerations For 4-Aminophenylmercury acetate, CAS-No. 6283-24-5 (Component C) Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal Service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical Incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (Component A, B and C) 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.

14. Transport Information:

UN Number	3316
Hazard Class	9
Packing Group	II
Proper Shipping Name (DOT)	Chemical kit

California Proposition 65:	Component C: WARNING! This product contains a chemical known in the cause birth defects or other reproductive harm. 4-Aminophenylmercury acetate. CAS-No. 6283-24-5 Revision Date 1990-07-01
US TSCA (Toxic Substance Control Act):	Component A,B,C,E : Listed Component D : Not listed
US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act:	Component A,B,C : 261.33 8(d). Component D : Not listed Component E : CAS# 60-00-4: 5000 lb final RQ; 2270 kg final RQ
US SARA Title III	Component E: CAS# 60-00-4: 5000 lb final RQ; 2270 kg final RQ Component A,B SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard Component C SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard Fire Hazard, Chronic Health Hazard Component D SARA 302 components: N/A SARA 313 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: N/A Component E SARA 302 components: N/A SARA 313 components: N/A
US Clean Air Act:	Component A, B, C, D and E Listed under Hazardous Air Pollutants: Not listed Listed under Class 1 Ozone Depletors: Not listed Listed under Class 2 Ozone Depletors: Not listed
US Clean Water Act:	Components A , B , C , and D Listed under "Hazardous Substances": Not listed Listed under "Priority Pollutants": Not listed Listed under "Toxic Pollutants": Not listed Component E Listed under "Hazardous Substances": Listed Listed under "Priority Pollutants": Not listed Listed under "Toxic Pollutants": Not listed

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

Component A:	Component B:	Component C:	Component D:	Component E:	
Pennsylvania	Pennsylvania	Pennsylvania		Pennsylvania	
Revision Date 2007-03-01	Revision Date 2007-03-01	Revision Date 1987-01-01	N/A	Revision Date 2007-03-01	ı
New Jersey	New Jersey	New Jersey		New Jersey	
Revision Date 2007-03-01	Revision Date 2007-03-01	Revision Date 1987-01-01	N/A	Revision Date 2007-03-01	ı
				Massachusetts	
<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	N/A	Revision Date 2007-03-01	

	Component A	Component B	Component C	Component D	Component E
EC EINICS	200-664-3	200-664-3	200-664-3 228-497-1	N/A	200-573-9
EC Risk statements	36/37/38	36/37/38	26/27/28-33-50/53	N/A	36/37/38
WGK	1	1	1	N/A	2
Canada- DSL/NDSL	Listed	Listed	Listed	Not listed	Listed
Canada- WHMIS classification	D2B	D2B	D2B	N/A	D2B
Canada- Canadian Ingredient Disclosure List	Listed	Listed	Listed	Not 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.