Safety Data Sheet (SDS)

Revision Numbe	er: 1.1	Last updated: May 2015
	Company Identification	
Product Name:		SensoLyte® 520 TEV Assay Kit *Fluorimetric*
Manufacturer/S	'upplier:	AnaSpec, Inc.
		www.anaspec.com
		34801 Campus Drive
		Fremont, CA 94555
		Tel: 510-791-9560
		Fax: 510-791-9572
		Email: service@anaspec.com
Catalog Numbe	r	AS-72227
Unit Size		1 kit
2. Hazards Ide		
Emergency Ove		
GHS Hazard Cl		
GHS Physical H		Flammable liquid (Category 2)
		Flammable liquid (Category 2)
	-	Skin irritation (Category 1), Eye irritation (Category 1)
		Skin irritation (Category 1), Eye irritation (Category 1) Skin irritation (Category 1), Eye irritation (Category 1)
	•	Skin irritation (Category 1), Eye irritation (Category 1) Skin irritation (Category 1), Eye irritation (Category 1)
	Component E.	Skin initiation (Category 1), Eye initiation (Category 1)
GHS Health and	d Environmental Hazara	ls
	Component A: 1	Irritant to eyes and skin
	Component B: 1	Irritant to eyes and skin
	Component C: 1	Irritant to eyes and skin
	Component D: 1	Irritant to eyes and skin
	Component E: I	frritant to eyes and skin
GHS Signal Wo	rds:	
-	Component A:	Warning
	Component B:	Warning
	Component C:	
	Component D:	
	Component E:	Warning
GHS Hazard St	atements:	
	Component A:	H227 Combustible liquid
	-	H227 Combustible liquid
	•	H316 Causes mild skin irritation, H320 Causes eye irritation.
	1	H335 May cause respiratory irritation.

Component D: H316 Causes mild skin irritation, H320 Causes eye irritation.

H335 May cause respiratory irritation.

Component E: H316 Causes mild skin irritation, H320 Causes eye irritation.

H335 May cause respiratory irritation.

GHS Precautionary Statements:

Component A: - None Component B: - None

Component C: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Component D: - P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Component E: - P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/

spray.

HMIS Classification:

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

NFPA Rating:

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

3. Composition / Information on Ingredients

Ingredients/Components:

Chemical Name:	Description	CAS Number:
Component A	Contains DMSO	67-68-5
Component B	Contains DMSO	67-68-5
Component C	Proprietary	NA
Component D	Proprietary	NA
Component E	Contains DTT	3483-12-3

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, C

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 D

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.

Component E

Inhalation: If breathe d 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.

5. Fire Fighting Measures

Extinguishing media:	Component A, B: For small fires, use dry chemical, or carbon		
	dioxide. For large fires, use water spray from a safe distance.		
	Component D, C and E: Use water spray, dry chemical or carbon		
	dioxide.		
Special firefighting procedures:	Component A, B: Fire fighters should wear positive pressure self-		
	contained breathing apparatus and full turnout gear.		
	Component C, D and E: N/A		
Unusual fire and explosions hazards:	Component A, 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, D and E: N/A		

6. Accidental Release Measures

response	Component A, B: Soak with inert absorbent material. Keep in suitable, closed container for disposal. Remove all source of ignition. Use spark-proof tools and explosion-proof equipment. Component C, D and E: Do not let product enter drains. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
PPE	Use personal protective equipment. Ensure adequate ventilation.

7. Handling and Storage

Component A, 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, D and E:

Handling: Avoid contact with skin and eyes.

Storage: Keep container tightly closed in a dry and well-ventilated place.

8. Exposure Controls	/ Personal Protection		
Engineering controls	Component A, B: Facilities storing and using this material should be equipped with a		
	safety shower and eyewash station. Use explosion-proof equipment. Adequate		
	ventilation should also be present.		
	Component C, D and E: Not applicable.		
PPE	Components A, B, C, D, and E:		
	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.		
	Eyes: Wear chemical splash goggles (EN166)		

9. Physical and Chemical Properties Physical State Liquid Odor Not determined Solubility in Water Soluble Specific Gravity Not determined pHComponent C - 8.0Component D - 4.0Boiling Point Not determined Melting Point Not determined Flash Point Not determined Vapor Pressure: Not determined Vapor Density: Not determined

Dangerous Reactions	Not applicable
11.Toxicological Information	
RTECS Number	Component A: PV6210000
	Component B: PV6210000
	Component C: N/A
	Component D: N/A
	Component E: N/A
Toxicity	Component A, Component B and Component D contain DMSO.
	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
	Component C, D and E
	Not Applicable
Health Hazards	No data available
Potential Hazards	Potential Health Effects
	Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
	Ingestion: Harmful if swallowed.
	Skin: May be harmful if absorbed through skin. May cause skin irritation.
	Eyes: Causes eye irritation.
	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.
Carcinogenicity:	No data available
OSHA Permissible Exposure Limit(, , , , , , , , , , , , , , , , , , ,
ACGIH Threshold Limit Values (Tl	(LV) No data available

12. Ecological Information

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

Components C, D and E

No data available

Components A, B, C, D and E

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

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13. Disposal Considerations

For Components A, B, C, D, 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.

14. Transport Information:	IATA Exempted	quantities labeling
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UN Number	N/A
Hazard Class	N/A
Identification Number	N/A
Packing Group	N/A
Proper Shipping Name (DOT)	N/A

California Proposition 65	N/A
JS TSCA (Toxic Substance Control Act)	Component A: Listed
as Tseri (Tome substance control rec)	Component B: Listed
	Component C: Not Listed
	Component D : Not Listed
	Component E: Not Listed
JS CERCLA (Comprehensive Environmental	Component A: 261.33 8(d).
desponse, Compensation, and Liability Act)	Component B : 261.33 8(d).
	Component C: N/A
	Component D : N/A
	Component E: N/A
JS 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 C
	SARA 302 components: N/A
	SARA 313 components: N/A
	SARA 311/312 Hazards: N/A
	Component D
	SARA 302 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
	SARA 311/312 Hazards: N/A
JS 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
JS Clean Water Act	Components A, B, C, D, and E
Section 1. deci 1200	Listed under "Hazardous Substances": Not 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	Pennsylvania
Revision Date	Revision Date	N/A	Revision Date	Revision Date
2007-03-01	2007-03-01		N/A	2007-03-01
CAS 67-68-5	CAS 67-68-5			CAS 3483-12-3
New Jersey				
Revision Date	Revision Date	N/A	Revision Date	Revision Date
2007-03-01	2007-03-01		N/A	2007-03-01
CAS 67-68-5	CAS 67-68-5			CAS 3483-12-3
Massachusetts	Massachusetts	Massachusetts	Massachusetts	Massachusetts
N/A	N/A	N/A	N/A	N/A

European/International Regulations:

	Component A:	Component B:	Component C:	Component D:	Component E:
EC EINECS	200-664-3	200-664-3	N/A	N/A	N/A
EC Risk	36/37/38	36/37/38	36/37/38	36/37/38	36/37/38
statements					
WGK	1	1	0	0	0
Canada-	Listed	Listed	Not Listed	Not Listed	Not Listed
DSL/NDSL					
Canada-	D2B	D2B	N/A	N/A	N/A
WHMIS					
classification					
Canada-	Listed	Listed	Not Listed	Not Listed	Not Listed
Canadian					
Ingredient					
Disclosure List					

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.