Safety Data Sheet (SDS)

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Revision Number: 1.1	Last updated: May 2015
1. Product and Company Id	entification
Product Name:	SensoLyte® 520 IDE Assay Kit *Fluorimetric*
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	AS-72231
Unit Size	1 kit
2. Hazards Identification	
Emergency Overview:	
GHS Hazard Classification:	
GHS Physical Hazards	
	onent A: Flammable liquid (Category 4)
	onent B: Flammable liquid (Category 4)
	nent C: Skin irritation (Category 3), Eye irritation (Category 2B)
-	nent D: Skin irritation (Category 2), Eye irritation (Category 2A)
Compo	nent E: Flammable liquid (Category 4), Acute toxicity, Oral (Category 3), Acute
	aquatic toxicity (Category 1), Chronic aquatic toxicity (Category 1)
GHS Health and Environmen	tal Hazards
	nent A: Irritant to eyes and skin
	nent B: Irritant to eyes and skin
	nent C: Irritant to eyes and skin
	nent D: Irritant to eyes and skin
Compo	nent E: Irritant to eyes and skin
GHS Signal Words:	
•	onent A: Warning
	onent B: Warning
	onent C: Warning
*	nent D: Warning
Compo	onent E: Danger
GHS Hazard Statements:	
-	onent A: H227 Combustible liquid
Compo	onent B: H227 Combustible liquid

Component C: H316 Causes mild skin irritation, H320 Causes eye irritation. H335 May

cause respiratory irritation.

Component D: H315 Causes skin irritation. H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Component E: H227 Combustible liquid, H301 Toxic if swallowed, H410 Very toxic to

aquatic life with long lasting effects.

GHS Precautionary Statements:

Component A: - None Component B: - None Component C: -None

Component D: P264 Wash skin thoroughly after handling. P270 Do not eat, drink or

smoke when using this product. P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection

Component E: P264 Wash skin thoroughly after handling. P270 Do not eat, drink or

smoke when using this product. P273 Avoid release to the environment. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or

doctor/ physician.

HMIS Classification:

Component A:	Component B:	Component C:	Component D:	Component E:
Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 1	Health hazard: 2
Flammability: 2	Flammability: 2	Flammability: 1	Flammability: 0	Flammability: 2
Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 1

NFPA Rating:

Component A: Component B:		Component C:	Component D:	Component E:
Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 1	Health hazard: 2
Fire: 2	Fire: 2	Fire: 1	Fire: 0	Fire: 2
Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 1

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 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

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: Wash off with soap and plenty of water. Consult a physician.

Eyes: Flush eyes with water as a precaution.

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.

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

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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: Flush eyes with water as a precaution.

5. Fire Fighting Measures

Extinguishing media:	Component A, B and E: For small fires, use dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance. Component C and D: Use water spray, dry chemical or carbon dioxide.
Special firefighting procedures:	Component A, B and E: Fire fighters should wear positive pressure self-contained breathing apparatus and full turnout gear. Component C and D: Wear self-contained breathing apparatus if necessary.
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 and D: Hazardous Carbon oxides, nitrogen oxides (NOx) formed under fire conditions. Component E: 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, nitrogen oxides formed under fire conditions.
6. Accidental Release Measures	
Containment and spill response	Component A and B: 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. Discharge into the environment must be avoided. Component C and D: 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. Component E: 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. Discharge into the environment must be avoided.
PPE	Use personal protective equipment
7. Handling and Storage Component A, B and E: 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 and D:

Handling: Avoid contact with skin and eyes.

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

Engineering controls	Component A, B, and E: Facilities storing and using this material should be equipped			
	_	ver and eyewash station. Adequate ventilation should also be present.		
		h skin, eyes and clothing. Wash hands before breaks and		
	immediately after handling the product.			
	Component C an	d D: Not applicable.		
PPE	Components A, F			
	Respiratory System	m: A respiratory protection program that meets OSHA's 29 CFR		
	1910.134 and AN	SI Z88.2 requirements or European Standard EN 149 must be		
	followed wheneve	er workplace conditions warrant respirator use.		
	Skin and Body: W	ear appropriate work uniform or laboratory coat to prevent skin		
	exposure.			
		ical resistant, impervious gloves. Appropriate techniques should be		
	_	etentially contaminated gloves.		
	Eyes: Wear chemi	ical splash goggles (EN166)		
9. Physical and Chen	ical Properties			
Physical State		Liquid		
Odor		Not determined		
Solubility in Water	,	Soluble		
Specific Gravity		Not determined		
рН		Component C – 7.0		
	(Component D – 7.5		
Boiling Point		Not determined		
Melting Point		Not determined		
Flash Point		Not determined		
Vapor Pressure:		Not determined		
Vapor Density:		Not determined		
10. Stability and Rea	ctivity			
Thermal Decomposition		Not applicable		
	f Decomposition	Not applicable		
Dangerous Products o				

RTECS Number	Component A: PV6210000
	Component B: PV6210000
	Component C: N/A
	Component D: N/A
	Component E: PV6210000
Toxicity	Component A, Component B and Component E 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 and Component D
	Not Applicable
	Component E
	Acute toxicity
	LD50 Oral - rat - 132 mg/kg
Health Hazards	No data available
Potential Hazards	Potential Health Effects
	<i>Inhalation</i> : 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(PEL) Data	No data available
ACGIH Threshold Limit Values (TLV)	No data available

12. Ecological Information

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

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

The combustible material (Component A, B and E) 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.

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			
US TSCA (Toxic Substance Control Act)	Component A: Listed			
US TSCA (TOXIC Substance Control Act)	Component B : Listed			
	Component C: Listed			
	Component D : Listed			
	Component E: Listed			
US CERCLA (Comprehensive Environmental	Component A: 261.33 8(d).			
Response, Compensation, and Liability Act)	Component B : 261.33 8(d).			
response, compensation, and Elasting Tiety	Component C: N/A			
	Component D : N/A			
	Component E: 261.33 8(d).			
US 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: Fire Hazard, Chronic Health			
	Hazard, Acute Health Hazard			
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, D, and E			
OB Clean Water rice	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	Revision Date	CAS 7647-14-5	Revision Date
2007-03-01	2007-03-01	2007-03-01	CAS 77-86-1	2007-03-01
CAS 67-68-5	CAS 67-68-5	CAS 56-81-5		CAS 67-68-5
		CAS 77-86-1		CAS 66-71-7
New Jersey				
Revision Date	Revision Date	Revision Date	CAS 7647-14-5	Revision Date
2007-03-01	2007-03-01	2007-03-01	CAS 77-86-1	2007-03-01
CAS 67-68-5	CAS 67-68-5	CAS 56-81-5		CAS 67-68-5
		CAS 77-86-1		CAS 66-71-7
Massachusetts	Massachusetts	Massachusetts	Massachusetts	Massachusetts
N/A	N/A	Revision Date	N/A	N/A
		2007-03-01		
		CAS 56-81-5		
		CAS 77-86-1		

European/International Regulations:

	Component A:	Component B:	Component C:	Component D:	Component E:
EC EINECS	200-664-3	200-664-3	200-289-5	231-598-3	200-664-3
					200-629-2
EC Risk	36/37/38	36/37/38	36-20/21/22-11	36/37/38, 22	36/37/38
statements					25/50/53
WGK	1	1	0	1	1
					3
Canada-	Listed	Listed	Listed	Listed	Listed
DSL/NDSL					
Canada-	D2B	D2B	N/A	D1A, E	D2B
WHMIS					D1B
classification					
Canada-	Listed	Listed	Not Listed	Not Listed	Listed
Canadian					Not listed
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.