Safaty Data Shoot (SDS)

	Salety Data Sheet (SDS)
Revision Number: 2.0	Last updated: April 2022
1. Product and Company Identificatio	1
Product Name:	SensoLyte [®] 520 Cathepsin L 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: <u>service@anaspec.com</u>
Catalog Number	AS-72218-
Unit Size	1 kit
	1 Mt
2. Hazards Identification	
Emergency Overview:	
GHS Hazard Classification:	
GHS Physical Hazards	E: Elemmobile liquid (Catagory 4)
Component C:	,E: Flammable liquid (Category 4)
	Acute toxicity, Oral (Category 5) Acute toxicity, Inhalation (Category 5),
Component D.	Skin irritation (Category 3), Eye irritation (Category 2B)
Component F: 1	
component i i	
GHS Health and Environmental Hazard.	
Component A,B	E: Irritant to eyes and skin
-	ritant to eyes, skin, and respiratory system
Component D: Irritant to eyes and skin, acute toxicity, oral and by inhalation	
Component F: 7	Carget organ effect, toxic by ingestion, irritant
GHS Signal Words:	
	,D,E,F: Warning
Component C:	
GHS Hazard Statements:	
Component A,B	,E: H227 Combustible liquid
Component C: H303 + H333 May be harmful if swallowed or if inhaled, H316 Cau	
	nild skin irritation, H320 Causes eye irritation
-	I303 + H333 May be harmful if swallowed or if inhaled, H316 Causes
	nild skin irritation, H320 Causes eye irritation
	303 May be harmful if swallowed, H315 Causes skin irritation, H319
(Causes serious eye irritation

GHS Precautionary Statements:

Component A,B,E: No

Component C, 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.

Component F: P305 +P351 +P38 -IF NEYS: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy told. Continue rinsing P37 +P31 -If eye irritation persist: Get medical advice/attention P32 +P31 -If skin irritation occurs: Get medical advice/attention P264 -Wash hands thoroughly after handling

P280 -Wear protective gloves/protective clothing/eye protection/face protection

P362 -Take of contaminated clothing and wash before use

HMIS Classification:

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

NFPA Rating:

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

3. Composition / Information on Ingredients

Ingredients/Component	5:	
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
Component F	1 M DTT solution	16096-97-2

<u> 4. First Aid Measures</u>

General advice

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

Component A,B,E

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,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 F

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. Take victim immediately to hospital. Consult a physician.

Eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
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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 D and F: Use water spray, alcohol-resistant foam, dry
	chemical or carbon dioxide.
Special firefighting procedures:	Component A, B and E: Fire fighters should wear positive pressure self-
	contained breathing apparatus (SCBA) and full turnout gear.
	Component D and F: Wear self-contained breathing apparatus (SCBA) if
	necessary.
Unusual fire and explosions hazar	ds: Component A, B and 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 formed under fire conditions.
	Component D: Carbon oxides and sodium oxides formed under fire
	conditions.
	Component F: Hazardous carbon oxides and sulphur oxides formed under
	fire conditions.
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6. Accidental Release Measures	
Containment and spill response	Component A, B and 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.

	Component C, D and F: Keep in suitable, closed container for disposal. D not let material enter drains.	
PPE	Use personal protective equipments	

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.

Component F:

Handling: Avoid contact with skin and eyes.

Storage: Store in a tightly closed container in a dry place at -20°C.

8. Exposure Controls / Personal Protection

Engineering controls	Component A, B, E and F: Facilities storing and using this material should
	be equipped with a safety shower and eyewash station. Adequate ventilation
	should also be present.
	Component C and D: Wear suitable protective clothing, including gloves,
	safety glasses, dust mask, and laboratory coat.
PPE	Components A, B, C, D, E and F:
	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

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Physical State	Liquid
Odor	Not determined
Solubility in Water	Soluble
Specific Gravity	Not determined
рН	Component C: 4.0
	Component D: 5.5
Boiling Point	Not determined
Melting Point	Not determined
Flash Point	Not determined

Vapor Pressure:	Not determined
Vapor Density:	Not determined
10. Stability and Reactivity	
Thermal Decomposition	Not applicable
Dangerous Products of	Not applicable
Decomposition	
Dangerous Reactions	Not applicable
11.Toxicological Information	
RTECS Number	Component A: PV6210000
	Component B: PV6210000
	Component C: N/A
	Component D: N/A
	L
	Component E: PV6210000
— • • •	Component F: EK1612000
Toxicity	Components 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
	Components D:
	Oral LD50 - rat - 3,530 mg/kg
	Inhalation LC50 - rat - 1 h - > $30,000 \text{ mg/m3}$
	Dermal LD50 - rabbit - > 10,000 mg/kg
	Skin - rabbit - Mild skin irritation - 24 h
	Eyes - rabbit - Mild eye irritation Component F
	LD50 - Intraperitoneal - mouse - 179 mg/kg
	ED30 - Intraperionear - inouse - 177 ing kg
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
Cruciu co cui -it	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
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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 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 Component D Toxicity Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 13,330 mg/l - 120 h LC50 - Lepomis macrochirus (Bluegill) - 5,000 mg/l - 24 h Toxicity to daphnia and other aquatic invertebrates. EC50 - Daphnia magna (Water flea) -> 1,000 mg/l - 48 h Persistence and degradability Biodegradability Result: 99 % - Readily biodegradable. **Bioaccumulative potential** no data available Mobility in soil no data available PBT and vPvB assessment no data available Other adverse effects No data available

13. Disposal Considerations

For Components A, B, C, D, E and F

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	N/A
Hazard Class	N/A
Identification Number	N/A
Packing Group	N/A
Proper Shipping Name (DOT)	N/A

California Proposition 65:	Not listed			
US TSCA (Toxic Substance	Component A: Listed			
Control Act):	Component B: Listed			
	Component C: N/A			
	Component D: Listed			
	Component E: Listed			
	Component F: Not Listed			
US CERCLA (Comprehensive	Component A: 261.33 8(d).			
Environmental Response,	Component B: 261.33 8(d).			
Compensation, and Liability	Component C: N/A			
Act:	Component D : Not listed			
	Component E: 261.33 8(d).			
	Component F: Not listed			
US SARA Title III	Component A,B,E			
	SARA 302 components: N/A			
	SARA 313 components: N/A			
	SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard			
	Component C,D			
	SARA 302 components: N/A			
	SARA 313 components: N/A			
	SARA 311/312 Hazards: N/A			
	Component F			
	SARA 302 components: N/A			
	SARA 313 components: N/A			
	SARA 311/312 Hazards: Acute Health Hazard			
US Clean Air Act:	Component A, B, C, D, E and F			
	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, E and F			
	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:	Component F:
Pennsylvania	Pennsylvania	Pennsylvania	Pennsylvania	Pennsylvania	Pennsylvania
Revision Date	Revision Date	N/A	CAS#	Revision Date	CAS#16096-97-2
2007-03-01 67-68-	2007-03-01 67-68-		127-09-3	2007-03-01 67-	
5	5			68-5	
New Jersey	New Jersey	New Jersey	New Jersey	New Jersey	New Jersey
Revision Date	Revision Date	N/A	CAS#	Revision Date	CAS#16096-97-2
2007-03-01 67-68-	2007-03-01 67-68-		127-09-3	2007-03-01 67-	
5	5			68-5	
Massachusetts	Massachusetts	Massachusetts	Massachusetts	Massachusetts	Massachusetts
N/A	N/A	N/A	N/A	N/A	N/A

European/International Regulations:									
	Component A:	Component B:	Component C:	Component D:	Component E:	Component F:			
EC EINICS	200-664-3	200-664-3	N/A	204-823-8	200-664-3	240-263-0			
EC Risk	36/37/38	36/37/38	N/A	-	36/37/38	36/37/3822			
statements									
WGK	1	1	N/A	N/A	1	N/A			
Canada-	Listed	Listed	Not Listed	Listed	Listed	Not Listed			
DSL/NDSL									
Canada-	D2B	D2B	N/A	D2B	D2B	D1B, D2B			
WHMIS									
classification									
Canada-	Listed	Listed	Not Listed	Not Listed	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.