Safety Data Sheet (SDS)

	1.1	Datety Data Direct (DDD)
Revision Numbe	r: 1.1	Last updated: May 2015
1. Product and	Company Identificati	ion
Product Name:	Company Identificati	SensoLyte® Rh110 Enterokinase Activity Assay Kit * Fluorimetric*
Manufacturer/Si	ıpplier:	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-72210
Unit Size		1 kit
2. Hazards Iden	<u>tification</u>	
Emergency Over	view:	
GHS Hazard Cla		
GHS Physical H		Flore 211-11-21 (Coton 2004)
	-	Flammable liquid (Category 4)
	-	Flammable liquid (Category 4)
	*	Not Applicable
1	*	Not Applicable
1	Component E:	Flammable liquid (Category 4)
GHS Health and	Environmental Hazar	ds
1	Component A:	Irritant to eyes and skin
1	-	Irritant to eyes and skin
1	-	Irritant to eyes and skin
1	-	Irritants to eyes and skin
	*	Irritants to eyes and skin
GHS Signal Wor	ds:	
	Component A:	Warning
	Component B:	Warning
	Component C:	Danger
1	Component D:	Danger
1	Component E:	Warning
GHS Hazard Sta	itements:	
	Component A:	H227 Combustible liquid
!		
		H227 Combustible liquid

Component D: H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Component E: H227 Combustible liquid

GHS Precautionary Statements:

Component A: - None Component B: - None Component C: - None Component D: -None Component E: -None

HMIS Classification:

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

NFPA Rating:

Component A:	Component B:	Component C:	Component D:	Component E:
Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 2	Health hazard: 0
Fire: 2	Fire: 2	Fire: 0	Fire: 0	Fire: 2
Reactivity hazard:				
0	0	0	0	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	Solution	N/A	
Component D	Solution	N/A	
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: 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: 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: 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: Flush eyes with water as a precaution.

Component 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.

5. Fire Fighting Measures

Extinguishing media:				
		Component A, B, and E: For small fires, use alcohol resistant foam, dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance. Component C, D: Not applicable.		
Special firefighting procea	lures:	Component A, B, and E: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Component C, D: Not applicable.		
Unusual fire and explosion	ns hazards:	Component A, B, 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 C, and D: Not applicable.		
C A village I Delega Ma				
6. Accidental Release Me Containment and spill response	further l all source vacuum and place	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, and D: Not applicable.		
PPE	Use per	rsonal protective equipment		

7. Handling and Storage

Component A, \overline{B} , and \overline{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: Not applicable.

Engineering controls	Component A	, B and E: Facilities storing and using this material should be equipped				
Lingineering controls		nower and eyewash station. Adequate ventilation should also be present.				
	•	, and D: Not applicable.				
	component e	, and D. Two applications.				
PPE	Component A	, B, and E				
Respiratory S		stem: A respiratory protection program that meets OSHA's 29 CFR				
		0.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed				
		place conditions warrant respirator use.				
	•	Wear appropriate work uniform or laboratory coat to prevent skin				
	exposure.					
		emical resistant, impervious gloves. Appropriate techniques should be				
		potentially contaminated gloves. emical splash goggles.				
	-	, and D: Not applicable.				
	Component C	, and D. Not applicable.				
9. Physical and Cl	nemical Properti	<u>es</u>				
Physical State		Components are liquids,				
Odo		Not determined				
Solubility in Water		Soluble				
Specific Gravity		Not determined				
pН		Component A, Not applicable				
		Component B, no data available				
		Component C -7.4				
		Component D -7.4				
		Component E no data available				
Boiling Point		Not determined				
		Not determined Not determined				
Melting Point		1 (of determined				
Melting Point Flash Point		Not determined				
		Not determined Not determined				
Flash Point		Not determined Not determined Not determined				
Flash Point Vapor Pressure:		Not determined				
Flash Point Vapor Pressure:	activit <u>y</u>	Not determined				
Flash Point Vapor Pressure: Vapor Density:		Not determined				
Flash Point Vapor Pressure: Vapor Density: 10.Stability and Real Thermal Decomposition	n	Not determined Not determined Not applicable				
Flash Point Vapor Pressure: Vapor Density: 10.Stability and Rea	n	Not determined Not determined				
Flash Point Vapor Pressure: Vapor Density: 10.Stability and Real Thermal Decomposition Dangerous Products of	n	Not determined Not applicable Not Applicable				
Flash Point Vapor Pressure: Vapor Density: 10.Stability and Real Thermal Decomposition	n	Not determined Not determined Not applicable				
Flash Point Vapor Pressure: Vapor Density: 10.Stability and Real Thermal Decomposition Dangerous Products of	n f Decomposition	Not determined Not applicable Not Applicable				

	Component B: PV6210000
	Component C: N/A
	Component D: N/A
	Component E: PV6210000
Toxicity	For Component A, B, and F contain 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
YY 1.7 YY 1	37 7 . 117
Health Hazards Potential Hazards	No data available
Potennai Hazaras	Potential Health Effects
	Inhalation May be harmful if inhaled. Causes respiratory tract
	irritation.
	Ingestion Harmful if swallowed.
	Skin Harmful if absorbed through skin. Causes 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 (DMSO) is readily absorbed through
	skin and may carry such materials into the body.
Carcinogenicity:	No data available
OSHA Permissible Exposure Limit (PEL)	No data available
Data	
ACGIH Threshold Limit Values (TLV) No data 12. Ecological Information	ata available

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

13. Disposal Considerations

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

Proper Shipping Name (DOT)

Packing Group

14. Hansport Information.		
UN Number	N/A	
Hazard Class	N/A	
Identification Number	N/A	

N/A

N/A

AnaSpec Inc.

	NT/A
California Proposition 65:	N/A
JS TSCA (Toxic Substance Control Act):	Component A: Listed
	Component B : Listed
	Component C: Not Listed
	Component D : Not listed
	Component E: listed
JS CERCLA (Comprehensive Environmental Response,	Component A: Not listed.
Compensation, and Liability Act:	Component B : Not listed
	Component C: Not listed
	Component D : Not listed
	Component E: Not listed
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: Acute Health Hazard, Chronic Health Hazard
	Component D
	SARA 302 components: N/A
	SARA 313 components: N/A
	SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard
	Component E
	SARA 302 components: N/A
	SARA 302 components: N/A, Chronic Health Hazard
	SARA 313 components. 19/A, Chronic Health Hazard SARA 311/312 Hazards: Acute Health Hazard
	SARA 311/312 Hazaius. Acute Health Hazaiti
JS Clean Air Act:	Component A, B, C, D, E,
	Listed under Hazardous Air Pollutants: Not listed
	Listed under Class 1 Ozone Depletors: Not listed
	Listed under Class 2 Ozone Depletors: Not listed
	Listed under Class 2 Ozone Depictors. Not listed
US Clean Water Act:	Components A, B, C, D, E,
55 Steel House Her.	Listed under "Hazardous Substances": Not listed
	Listed under "Priority Pollutants": Not listed
	Listed under "Toxic Pollutants": Not listed

Component A:	Component B:	Component C:	Component D:	Component E:	
Pennsylvania	Pennsylvania	N/A	N/A	Pennsylvania	
Revision Date 2007-03-	Revision Date 2007-			Revision Date 2007-	
01	03-01			03-01	
New Jersey	New Jersey	N/A	N/A	New Jersey	
Revision Date 2007-03-	Revision Date 2007-			Revision Date 2007-	
01	03-01			03-01	
Massachusetts	N/A	N/A	N/A	Massachusetts N/A	

European/International Regulations:

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

16. Other Information

It is not intended for food, drug, and 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.