Safety Data Sheet (SDS)

	er: 1.1	Last updated: May2015
1. Product and	Company Identificat	tion
Product Name:	Company Tuentment	SensoLyte [®] ABD-F Thiol Quantitation 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-72137
Unit Size		1 kit
2. Hazards Ide	ntification	
Emergency Ove		
GHS Hazard Cl	lassification:	
GHS Physical H		
		: Flammable liquid (Category 4)
		: Acute toxicity, Oral (Category 5)
	Component C	: Not Applicable.
GHS Health and	d Environmental Haza	erds
GHS Health and	d Environmental Haza Component A	
GHS Health and	Component A	: Irritant to eyes and skin
GHS Health and	Component A Component B	
	Component A Component B Component C	: Irritant to eyes and skin : Irritant to eyes and skin, acute toxicity, oral
	Component A Component B Component C	: Irritant to eyes and skin : Irritant to eyes and skin, acute toxicity, oral : Irritant to eyes and skin
GHS Health and GHS Signal Wo	Component A Component C rds: Component A Component B	: Irritant to eyes and skin : Irritant to eyes and skin, acute toxicity, oral : Irritant to eyes and skin : Warning : Warning
	Component A Component Component Component Component A	: Irritant to eyes and skin : Irritant to eyes and skin, acute toxicity, oral : Irritant to eyes and skin : Warning : Warning
	Component A Component Component Component A Component A Component B Component C	: Irritant to eyes and skin : Irritant to eyes and skin, acute toxicity, oral : Irritant to eyes and skin : Warning : Warning
GHS Signal Wo	Component A Component C rds: Component A Component A Component B Component C	: Irritant to eyes and skin : Irritant to eyes and skin, acute toxicity, oral : Irritant to eyes and skin : Warning : Warning
GHS Signal Wo	Component A Component C rds: Component A Component A Component B Component C atements: Component A	: Irritant to eyes and skin : Irritant to eyes and skin, acute toxicity, oral : Irritant to eyes and skin : Warning : Warning : None
GHS Signal Wo	Component A Component Component Component A Component B Component B Component Component Component Component A Component A Component A Component B	: Irritant to eyes and skin : Irritant to eyes and skin, acute toxicity, oral : Irritant to eyes and skin : Warning : Warning : None : H227 Combustible liquid
GHS Signal Wo GHS Hazard Sta	Component A Component Component Component A Component B Component B Component Component Component Component A Component A Component A Component B	 : Irritant to eyes and skin : Irritant to eyes and skin, acute toxicity, oral : Irritant to eyes and skin : Warning : Warning : None : H227 Combustible liquid : H303 May be harmful if swallowed
GHS Signal Wo GHS Hazard Sta	Component A Component Component Component A Component A Component B Component Component Component A Component Component A Component A Component A Component	: Irritant to eyes and skin : Irritant to eyes and skin, acute toxicity, oral : Irritant to eyes and skin : Warning : Warning : None : H227 Combustible liquid : H303 May be harmful if swallowed : H303 May be harmful if swallowed.
GHS Signal Wo GHS Hazard Sta	Component A Component Component Component A Component A Component B Component Component Component Component A Component A Component A Component B Component	 : Irritant to eyes and skin : Irritant to eyes and skin, acute toxicity, oral : Irritant to eyes and skin : Warning : Warning : None : H227 Combustible liquid : H303 May be harmful if swallowed : H303 May be harmful if swallowed : - None.

HMIS Classification:

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

NFPA Rating:

Component A:	Component B:	Component C:
Health hazard: 0	Health hazard: 0	Health hazard: 0
Fire: 2	Fire: 0	Fire: 0
Reactivity hazard: 0	Reactivity hazard: 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 GSH	70-18-8
Component C	Proprietary	N/A

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.

Flush eyes with water as a precaution. Eves:

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.

Eves: 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. If symptoms arise, consult a physician. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Eyes:

5. Fire Fighting Measures

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Extinguishing media:	Component A: For small fires, use alcohol resistant foam, dry chemical, or
	carbon dioxide. For large fires, use water spray from a safe distance.
	Component B and C: Use alcohol-resistant foam, dry chemical, carbon dioxide, or water spray.
Special firefighting procedures:	Component A: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
	Component B and C: Wear self-contained breathing apparatus (SCBA) if necessary.
Unusual fire and explosions hazards:	Component A: 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 B: Hazardous carbon oxides, nitrogen oxides, and sulfur oxides formed under fire conditions.
	Component C: None.

6. Accidental Release Measures

Containment and spill	Component A: Immediately contact emergency personnel. Prevent further leakage or
response	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 B: Do not let material enter drains. Keep in suitable, closed container for disposal.
	Component C: Soak up with inert absorbent material. Keep in suitable, closed container for disposal.
PPE	Use personal protective equipment

7. Handling and Storage

Component A

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 B

Handling: Avoid contact with skin and eyes.

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

Component C:

Handling: Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

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

8. Exposure Controls / Personal Protection

Engineering controls Component A: Facilities storing and using this material should be equipped with a safety shower and eyewash station. Adequate ventilation should also be present.

Component B: Not Applicable.

Component C: Not Applicable.

PPE Component A

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.

Component B

Skin and Body: Wear appropriate work uniform or laboratory coat to prevent skin exposure. Hands: Handle with gloves. Appropriate techniques should be used to remove potentially contaminated gloves.

Eyes: Handle with safety glasses.

Component C

Skin and Body: Wear appropriate work uniform or laboratory coat to prevent skin exposure. *Hands:* Handle with gloves. Appropriate techniques should be used to remove potentially contaminated gloves.

Eyes: Wear safety glasses

9. Physical and Chemical Properties

Physical State	Liquid
Odo	Not determined
Solubility in Water	Soluble
Specific Gravity	Not determined
рН	Component C – pH 8.3

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 Decomposition	Not Applicable
Dangerous Reactions	Not Applicable
11.Toxicological Information	
RTECS Number	Component A: PV6210000 Component B: MC0556000 Component C: NA
Toxicity	Component A contains 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
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(PEL) Data	No data available
	No data available

For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (Component A contains 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 (Component A)

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 exemp	d quantities labeling	
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:		1	N/A	
-				
US TSCA (Toxic Substance	Control Act):		Component A: Listed	
			Component B : Listed	
			Component C: Not listed	
US CERCLA (Comprehensi			Component A : 261.33 8(d	i).
Compensation, and Liability	Act:		Component B : N/A	
			Component C: N/A	
JS SARA Title III			Component A	
			SARA 302 components: N	
			SARA 313 components: N	
				Fire Hazard, Chronic Health Hazard
			Component B	
			SARA 302 components: N	
			SARA 313 components: N	
			SARA 311/312 Hazards: N	No SARA Hazards
			Component C	
			SARA 302 components: N	
			SARA 313 components: N	
		5	SARA 311/312 Hazards: N	N/A
US Clean Air Act:			Component A, B, and C	
OS Clean Air Act:			Lomponent A, B, and C Listed under Hazardous Ai	in Dellarantes New Estad
			Listed under Class 1 Ozone	
			Listed under Class 2 Ozone	e Depieiors. Noi iisied
US Clean Water Act:		I <i>I</i>	Components A, B, and C Listed under "Hazardous Substituted under "Priority Policisted under "Toxic Pollutants	lutants": Not listed
US States: Right-to-Know: Component A: Pennsylvania	Component Pennsylvani	B:	Component C:	
Revision Date 2007-03-01	Revision Da		N/A	
New Jersey	New Jersey	11/11	17/11	
Revision Date 2007-03-01	Revision Da	nte N/A	N/A	
N/A	N/A	11/11	N/A	
± 1/ 4. ≇	1 1/11		11/11	
European/International Re	egulations:			
-	Component A	Component I	B Component C	
			N/A	7
EC EINICS	200-664-3	200-725-4	IN/A	
EC EINICS EC Risk statements				-
EC EINICS EC Risk statements WGK	200-664-3 36/37/38 1	36/37/38 1	N/A N/A N/A	_

AnaSpec Inc.34801 Campus Drive, Fremont, CA 94555
Toll-Free: 800-452-5530 • Tel: 510-791-9560 • Fax: 510-791-9573

Canada- D2B Non-controlled N/A WHMIS classification Listed Not determined Not listed
Y Y
Canada Listed Not determined Not listed
Canada- Dister Not determined 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.