

Safety Data Sheet (SDS)

<i>Revision Number: 1.1</i>	<i>Last updated: April 2015</i>
<u>1. Product and Company Identification</u>	
<i>Product Name:</i>	Sensolyte[®] HABA Biotin Quantitation Kit *Colorimetric*
<i>Manufacturer/Supplier:</i>	AnaSpec, Inc. www.anaspec.com 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572 Email: service@anaspec.com
<i>Catalog Number</i>	AS-72096-120 , AS-72096-500
<i>Unit Size</i>	1 kit
<u>2. Hazards Identification</u>	
<i>Emergency Overview:</i>	
<i>GHS Hazard Classification:</i>	
<i>GHS Physical Hazards</i>	
	Component A: None Component B: None Component C: Flammable liquid (Category 4)
<i>GHS Health and Environmental Hazards</i>	
	Component A: None Component B: Causes respiratory track, eye and skin irritation Component C : Irritant to eyes and skin
<i>GHS Signal Words:</i>	
	Component A: None Component B and C: Warning
<i>GHS Hazard Statements:</i>	
	Component A and B: None Component C: Warning
<i>GHS Precautionary Statements:</i>	
	Component A: None Component B: P280 Wear Eye Protection Component C: Warning
<i>HMIS Classification:</i>	
	Component A: Health hazard: 0 Flammability: 0 Physical hazards: 0 Component B: Health hazard: 1 Flammability: 0 Physical hazards: 0 Component C: Health hazard: 0 Flammability: 2 Physical hazards: 0

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NFPA Rating:

Component A: Health Hazard: 0
Fire: 0
Reactivity hazard: 0

Component B: Health Hazard: 1
Fire: 0
Reactivity hazard: 0

Component C: Health Hazard: 0
Fire: 2
Reactivity hazard: 0

3. Composition / Information on Ingredients**Ingredients/Components:**

<i>Chemical Name:</i>	<i>Description</i>	<i>CAS Number:</i>
Component A	Avidin	NA
Component B	HABA Assay Buffer	NA
Component C	d-Biotin	NA

4. First Aid Measures**General advice**

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

All Components

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: For small fires, use alcohol resistant foam, dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance.

Special firefighting procedures: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Unusual fire and explosions hazards: **Component C:** 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.
Other components: None

6. Accidental Release Measures

Containment and spill response **Component C:** 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.

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	All other components: Soak up with inert absorbent material.
<i>PPE</i>	Use personal protective equipment

7. Handling and Storage

Component C

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.

Other Components:

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 at -20 °C

8. Exposure Controls / Personal Protection

<i>Engineering controls</i>	Facilities storing and using this material should be equipped with a safety shower and eyewash station. Adequate ventilation should also be present.
<i>PPE</i>	<i>Skin and Body:</i> Wear appropriate work uniform or laboratory coat to prevent skin exposure. <i>Hands:</i> Use chemical resistant, impervious gloves. Appropriate techniques should be used to remove potentially contaminated gloves. <i>Eyes:</i> Wear chemical splash goggles.

9. Physical and Chemical Properties

<i>Physical State</i>	Component A: Solid Component B and C: Liquid
<i>Odo</i>	Not determined
<i>Solubility in Water</i>	Soluble
<i>Specific Gravity</i>	Not determined
<i>pH</i>	Component B :7
<i>Boiling Point</i>	Not determined
<i>Melting Point</i>	Not determined
<i>Flash Point</i>	Not determined
<i>Vapor Pressure:</i>	Not determined
<i>Vapor Density:</i>	Not determined

10. Stability and Reactivity

<i>Thermal Decomposition</i>	Not applicable
<i>Dangerous Products of Decomposition</i>	Not Applicable
<i>Dangerous Reactions</i>	Not Applicable

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<u>11. Toxicological Information</u>	
<i>RTECS Number</i>	NA
<i>Toxicity</i>	Component C 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 Other Components: None
<i>Health Hazards</i>	<i>No data available</i>
<i>Potential Hazards</i>	Potential Health Effects All Components Inhalation: May be fatal if inhaled. May cause respiratory tract irritation. Skin: May cause skin irritation. May be fatal if absorbed through skin. Eyes: May cause eye irritation. Ingestion: May be fatal if swallowed.
<i>Carcinogenicity:</i>	No data available
<i>OSHA Permissible Exposure Limit (PEL) Data</i>	No data available
<i>ACGIH Threshold Limit Values (TLV)</i> No data available	
<u>12. Ecological Information</u>	
For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (Component C 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	
Other Components: <i>No data available</i>	
<u>13. Disposal Considerations</u>	

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For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (**Component C**)

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.

Other Components:

Consult local, state, or national regulations for proper disposal.

14. Transport Information: IATA Exempted quantities labeling

<i>UN Number</i>	N/A
<i>Hazard Class</i>	N/A
<i>Identification Number</i>	N/A
<i>Packing Group</i>	N/A
<i>Proper Shipping Name (DOT)</i>	N/A

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15. Regulatory information			
California Proposition 65:	None		
US TSCA (Toxic Substance Control Act):	Not listed		
US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)	Component C: 261.33 8(d). Other Components: Not listed		
US SARA Title III	Component C SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard Other Components: NA		
US Clean Air Act:	All components <i>Listed under Hazardous Air Pollutants: Not listed</i> <i>Listed under Class 1 Ozone Depletors: Not listed</i> <i>Listed under Class 2 Ozone Depletors: Not listed</i>		
US Clean Water Act:	All components Listed under "Hazardous Substances": Not listed <i>Listed under "Priority Pollutants": Not listed</i> Listed under "Toxic Pollutants": Not listed		
US States: Right-to-Know: Listed in the following States:			
Component C:	Pennsylvania Revision Date 2007-03-01 New Jersey Revision Date 2007-03-01		
Other Components:	None		
European/International Regulations:			
	Component A	Component B	Component C
EC EINICS	NA	NA	200-664-3
EC Risk statements	NA	NA	36/37/38
WGK	NA	NA	1
Canada- DSL/NDSL	Not Listed	Not Listed	Listed
Canada- WHMIS classification	NA	NA	D2B
Canada- Canadian Ingredient Disclosure List	Not Listed	Not Listed	Listed
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.			

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