

Safety Data Sheet (SDS)

Revision Number: 1.1	Last updated: April 2015
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1. Product and Company Identification

<i>Product Name:</i>	SensoLyte Cell Cytotoxicity Assay Kit *Fluorimetric*
<i>Manufacturer/Supplier:</i>	AnaSpec, Inc. www.anspec.com 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572 Email: service@anspec.com
<i>Catalog Number</i>	71303
<i>Unit Size</i>	1 kit(5000 Assays)

2. Hazards Identification

Emergency Overview:

GHS Hazard Classification:

GHS Physical Hazards

- Component C:** Skin irritation (Category 3)
 Serious eye damage (Category 1)
 Acute aquatic toxicity (Category 3)
 Chronic aquatic toxicity (Category 3)
- Component D:** Acute toxicity, Oral (Category 4)
 Acute toxicity, Dermal (Category 3)
 Skin irritation (Category 2)
 Eye irritation (Category 2A)
 Specific target organ toxicity - single exposure (Category 3)
 Acute aquatic toxicity (Category 2)

Other Components: Not Applicable

GHS Health and Environmental Hazards

- Component A:** Not Applicable
Component B: Irritant to eyes
Component C: Irritant to eyes, skin
Component D: Target organ effect, harmful by ingestion, toxic by skin absorption, irritant

GHS Signal Words:

- Component C:** Danger
Component D: Danger
Other Components: Not Applicable

GHS Hazard Statements:

- Component A:** None
Component B: H303 May be harmful if swallowed.
Component C: H316 Causes mild skin irritation.
 H318 Causes serious eye damage.
 H412 Harmful to aquatic life with long lasting effects.
- Component D:** H302 Harmful if swallowed.
 H311 Toxic in contact with skin.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H401 Toxic to aquatic life.

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GHS Precautionary Statements:

- Component C:** P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for s
- Component D:** P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P280 Wear protective gloves/ protective clothing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

HMS Classification:

Component A:	Component B:	Component C:	Component D:
Health hazard: 0	Health hazard: 1	Health hazard: 2	Health hazard: 2
Flammability: 0	Flammability: 0	Flammability: 1	Flammability: 3
Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 3

NFPA Rating:

Component A:	Component B:	Component C:	Component D:
Health hazard: 0	Health hazard: 1	Health hazard: 2	Health hazard: 2
Fire: 0	Fire: 0	Fire: 1	Fire: 3
Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 3

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

<i>Chemical Name:</i>	<i>Description</i>	<i>CAS Number:</i>
Component A	Proprietary	N/A
Component B	Proprietary	N/A
Component C	Contains Triton-X	N/A
Component D	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: Not Applicable

Component B

Inhalation: Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Skin: Rinse with plenty of water. If symptoms arise, call a physician.

Eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

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: 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.

5. Fire Fighting Measures**AnaSpec Inc.**

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<i>Extinguishing media:</i>	<p>Component A: Not Applicable Component B: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Component C: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Component D: For small fires, use alcohol resistant foam, dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance.</p>
<i>Special firefighting procedures:</i>	No special measures required
<i>Unusual fire and explosions hazards:</i>	Hazardous decomposition products formed under fire conditions. - Carbon oxides
6. Accidental Release Measures	
<i>Containment and spill response</i>	<p>Component A : Not Applicable Component B: Soak up with inert absorbent material Component C: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Component D: Contain spillage and collect with an electrically protected vacuum cleaner or wet brush. Keep in suitable, closed container for disposal.</p>
<i>PPE</i>	Wear suitable protective clothing, including gloves, safety glasses, dust mask, and a laboratory coat.
7. Handling and Storage	
<p>Component A: Keep in dry place. Component B: <i>Handling:</i> Avoid contact with skin, eyes and clothing. Wear personal protective equipment. <i>Storage:</i> Keep in a dry, cool and well-ventilated place. Component C: <i>Handling:</i> Avoid inhalation of vapor or mist. <i>Storage:</i> Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Component D: <i>Handling:</i> Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Take measures to prevent the build up of electrostatic charge. <i>Storage:</i> Store in a tightly closed container in a dry, well-ventilated area.</p>	
8. Exposure Controls / Personal Protection	
<i>Engineering controls</i>	<p>Component A: Not Applicable Component B: Ensure adequate ventilation, especially in confined areas Component C: Facilities storing and using this material should be equipped with a safety shower and eyewash station. Component D: Facilities storing and using this material should be equipped with a safety shower and eyewash station. Adequate ventilation should also be present.</p>
<i>PPE</i>	<p>Component A ,B: <i>Respiratory System:</i> Respiratory protection not required <i>Hands:</i> Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. <i>Eyes:</i> Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). <i>Skin and body protection:</i> impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p>

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	<p>Component C: The usual precautionary measures of handling chemicals should be followed <i>Hands:</i> Protective gloves <i>Eyes:</i> Safety glasses.</p> <p>Component D: <i>Respiratory System:</i> If necessary, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). <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. Wash and dry hands. <i>Eyes:</i> Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).</p>
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9. Physical and Chemical Properties

<i>Physical State</i>	Component A,C-Solid	Component B, D and E-Liquid
<i>Odo</i>	Not determined	
<i>Solubility in Water</i>	Soluble	
<i>Specific Gravity</i>	Not determined	
<i>pH</i>	Component B -7.2	
<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

11.Toxicological Information

<i>RTECS Number</i>	NA
<i>Toxicity</i>	<p>Component D LD50 Oral – rat - 1,288 mg/kg LC50 Inhalation – rat – 1 h - >3,900 mg/m³ LD50 Dermal – rabbit - 580 mg/kg</p>
<i>Health Hazards</i>	<i>No data available</i>
<i>Potential Hazards</i>	<p>Component D <i>Inhalation:</i> May be harmful if inhaled. Causes respiratory tract irritation. <i>Ingestion:</i> Harmful if swallowed. <i>Skin:</i> Toxic if absorbed through skin. Causes skin irritation. <i>Eyes:</i> Causes eye irritation.</p>
<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

12. Ecological Information

Component C**Toxicity**

Toxicity to fish mortality NOEC - Oncorhynchus mykiss (rainbow trout) - 19.5 mg/l - 96 h

mortality LOEC - Pimephales promelas (fathead minnow) - 4.6 mg/l - 8 d

LC50 - Oncorhynchus mykiss (rainbow trout) - 3.6 mg/l - 96 h

Toxicity to algae Growth inhibition LOEC - Pseudokirchneriella subcapitata - 2.68 mg/l - 6 d

Persistence and degradability

No data available

Bioaccumulative potential

Bioaccumulation Cyprinus carpio (Carp) - 72 h

Bioconcentration factor (BCF): 3.9 - 5.3

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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Toxic to aquatic life.

13. Disposal Considerations**Component C: Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product

Component D. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

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				
<i>California Proposition 65:</i>		None		
US TSCA (Toxic Substance Control Act):		Component A,B : Not listed Component C,D: Listed		
<i>US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):</i>		Component A,B,C,D : N/A		
US SARA Title III		Component A,B SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: N/A Component C SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Acute Health Hazard Component D SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Fire Hazard, Acute Health Hazard, Chronic		
US Clean Air Act: <i>US Clean Water Act</i>		Component A, B, C, D Listed under Hazardous Air Pollutants: Not listed <i>Listed under Class 1 Ozone Depletors: Not listed</i> <i>Listed under Class 2 Ozone Depletors: Not listed</i> Components A, B, C, D Listed under "Hazardous Substances": Not listed <i>Listed under "Priority Pollutants": Not listed</i> Listed under "Toxic Pollutants": Not listed		
<i>US States: Right-to-Know: Listed in the following States:</i>				
Component A:	Component B:	Component C:	Component D:	
N/A	N/A	Pennsylvania Revision Date 2007-03-01	Pennsylvania Revision Date N/A	
N/A	N/A	New Jersey Revision Date 2007-03-01	New Jersey Revision Date N/A	
<i>European/International Regulations:</i>				
	Component A	Component B	Component C	Component D
EC EINICS	N/A	N/A	231-502-5	205-788-1
<i>EC Risk statements</i>	N/A	N/A	S02/07/24/25	36/37/38-36/38-22-11-21/22-42-41-20/21/22
<i>WGK</i>	N/A	N/A	1	2
<i>Canada-DSL/NDSL</i>	Not listed	Not listed	Listed	Listed
<i>Canada-WHMIS classification</i>	N/A	D2B	D2B	D2B
<i>Canada-Canadian Ingredient Disclosure List</i>	Not Listed	Not Listed	Not Listed	Not 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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