Safety Data Sheet (SDS)

Revision Number: 1.1	*Last updated: May2015*

1. Product and Company Identification

Product Name:	**SensoLyte® Calcein Cell Viability 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: service@anaspec.com
Catalog Number	AS-72126
Unit Size	1 kit

2. Hazards Identification

Emergency Overview:

GHS Hazard Classification:

GHS Physical Hazards

Component A: Flammable liquids (Category 4)

Component B: Not Applicable

GHS Health and Environmental Hazards

Component A: Irritants to eyes and skin

Component B: Irritants to eyes and skin

GHS Signal Words:

Component A: Warning

Component B: Not Applicable

GHS Hazard Statements:

Component A: H303,H313, Maybe harmful if swallowed or in contact with skin.

Component B: H303 May be harmful if swallowed.

GHS Precautionary Statements:

Component A: P302, P340 May be respiratory irritant if inhaled. May cause respiratory tract irritation.

Component B: None

HMIS Classification:

Component A:	**Component B:**
Health hazard: 0	*Health hazard: 0*
Flammability: 2	*Flammability: 0*
Physical hazards: 0	*Physical hazards:0*

NFPA Rating:

Component A:	**Component B:**
Health hazard: 0	*Health hazard: 0*
Fire: 2	*Fire: 0*
Reactivity hazard: 0	*Reactivity hazard:0*

3. Composition / Information on Ingredients

Ingredients/Components:

Chemical Name:	*Description*	*CAS Number:*
Component A	Calcein, AM DMSO	148504-34-1 67-68-5
Component B	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 dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear passage of breathing. If irritation or discomfort persists seek medical attention.

Ingestion: If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Skin: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. If pain persists or recurs seek medical attention.

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.

5. Fire Fighting Measures

Extinguishing media:	**Component A:** Water spray or fog. Alcohol resistant foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide. **Component B:** Water spray. Carbon dioxide (CO2). Foam. Dry chemical.
Special firefighting procedures:	**Component A:** Alert Emergency Responders and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. **Component B:** Wear self-contained breathing apparatus and protective Suit.
Unusual fire and explosions hazards:	**Component A:** Emits toxic fumes under fire conditions **Component B:** None

6. Accidental Release Measures

Containment and spill response	**Component A:** *Containment :* Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Use good occupational work practice. Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source. Do NOT cut, drill, grind or weld such containers *Spill response :*Remove all ignition sources. Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact by using protective equipment. Use dry clean up procedures and avoid generating dust. Place in a suitable, labeled container for waste disposal **Component B:** Soak up with inert absorbent material
PPE	Use personal protective equipment.

7 . Handling and Storage

Component A: *Precautions for safe handling:*Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. *Conditions for safe storage:* 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. *Recommended storage temperature:* -20 °C
Component B:*Handling:* Avoid contact with skin, eyes and clothing. Wear personal protective equipment.
Storage: Keep in a dry, cool and well-ventilated place.

8. Exposure Controls / Personal Protection

Engineering controls	**Component A:** Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction. Exhaust ventilation should be designed to prevent accumulation and re-circulation of particulates in the workplace. If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered. Such protection might consist of: (a): particle dust respirators, if necessary, combined with an absorption cartridge; (b): filter respirators with absorption cartridge or canister of the right type; (c): fresh-air hoods or masks Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding. Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to efficiently remove the contaminant. **Component B:** Ensure adequate ventilation, especially in confined areas.
PPE	**Component A:** Use personal protective equipment **Component B:** *Respiratory System:* In case of insufficient ventilation wear suitable respiratory equipment. *Skin and Body:* Lightweight protective clothing. *Hands: Impervious gloves.* *Eyes:* Safety glasses with side-shields

9. Physical and Chemical Properties

Physical State	Liquid
Odor	Not determined
Solubility in Water	Soluble
Specific Gravity	Not determined
pH	7.3
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	**Component A:** No data available **Component B:** Not applicable
Dangerous Products of Decomposition	**Component A:** No data available **Component B:** Not applicable

Dangerous Reactions	**Component A:** COx, NOx when burned **Component B:** Not applicable
11.Toxicological Information	
RTECS Number	**Component A:** *CAS# 67-68-5:* PV6210000 **Component B:** N/A
Toxicity	**Component A:** *CAS# 67-68-5:* LD50 Oral-rat-14,5000mg/kg LD50 Inhilation-rat-4h-40250ppm LD50 Dermal-rabbit- >5,000 mg/kg **Component B:** N/A
Health Hazards	**Component A:** *CAS# 67-68-5:* Genotoxicity in vivo-mouse- Intraperitoneal DNA damage **Component B:** N/A
Potential Hazards	**Component A:** Skin Contact: May cause skin irritation. Eye Contact: May cause eye irritation Inhalation: May be harmful if inhaled Ingestion: May be harmful if swallowed **Component B:** N/A
Carcinogenicity:	**Component A:** *CAS# 67-68-5:* Carcinogenicity- rat- Oral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Turmors. *CAS# 67-68-5:* Carcinogenicity- mouse- Oral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Leukaemia Skin and Appendages: Others: Tumor **Component B:** N/A
OSHA Permissible Exposure Limit(PEL) Data	No data available
ACGIH Threshold Limit Values (TLV)	No data available
12. Ecological Information	
Component A: Toxicity to fish (CAS# 67-68-5) LD50- Pimephales promelas (fathead minnow)-34,000mg/l – 96h LD50- Oncorhynchus mykiss (rainbow trout)- 35,000 mg/l- 96h **Component B:** N/A	

13. Disposal Considerations

Component A: All waste must be handled in accordance with local, state and federal regulations. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.
Component B: N/A
Contaminated packaging: Dispose of as unused product.

14. Transport Information: IATA Exempted quantities labeling

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

15. Regulatory information

California Proposition 65:	Not Listed
US TSCA (Toxic Substance Control Act):	**Component A:** Listed **Component B:** Not listed
US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):	**Component A:** Not listed **Component B: Not listed**
US SARA Title III	**Component A:** Listed **Component B:** Not listed
US Clean Air Act:	**Components A, B:** 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:** 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**
Massachusetts	N/A	N/A
Pennsylvania	CAS-No. 67-68-5 Revision Date 2007-03-01	N/A
New Jersey	CAS-No. 67-68-5 Revision Date 2007-03-01	N/A

European/International Regulations:

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