# Safety Data Sheet (SDS)

Revision Number: <b>3.0</b>	Last updated March 26, 2021
1. Product and Company Identifi	ication_
Product Name:	Calcein, AM, UltraPure Grade, 5mM solution in anhydrous DMSO
Manufacturer/Supplier:	AnaSpec, Inc. <u>www.anaspec.com</u> 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572 Email: <u>service@anaspec.com</u>
Catalog Number	AS-89203
Unit Size	200µL
GHS Health and Environmenta GHS Signal Words: None GHS Hazard Statements: N/A GHS Precautionary Statements: N	
GHS Hazard Symbol/Pictogram:	NONE
GHS Precautionary Statements:	
Description of any hazards not othe	erwise classified:
Description of any unknown acute t	oxicity:
HMIS Classification Health hazard. Chronic Health Flammability: Physical hazar	h Hazard: 0 0

NFPA Rating Health hazard: 0 Fire: 0 Reactivity Hazard: 0

Potential Health Effects for:

*Inhalation:* If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Skin: In case of contact, immediately wash skin with soap and copious amount of water.

Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Chronic Exposures: No information available. We recommend limiting prolonged exposure.

Target Organs: No information available

#### 3. Composition

Ingredients/Components:

Chemical Name:

Calcein, AM, UltraPure Grade, 5mM solution in anhydrous DMSO Molecular formula:  $C_{46}H_{46}N_2O_{23}$ Molecular weight: 994.9 CAS-No 148504-34-1 EC-No N/A

Chemical Name:	CAS Number:	EC-Number	
Calcein, AM	148504-34-1	N/A	
DMSO	67-68-5	200-664-3	

## 4. First Aid Measures

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 <b>NOT</b> 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:	If skin or hair contact occurs:
	Flush skin and hair with running water (and soap if available).
	Seek medical attention in event of irritation.

Eyes:	If this product comes in contact with the 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.	
5. Fire Fig	ghting Measures	
Extinguish	ing media:	Water spray or fog. Alcohol resistant foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide
Special firefighting procedures:		<ul> <li>Alert Emergency Responders and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or wat course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li><b>DO NOT</b> approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Unusual fire and explosions hazards:		Emits toxic fumes under fire conditions

## 6. Accidental Release Measures

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	
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	

PPE	Use personal protective equipment

## 7. Handling and Storage

Store at -20°C desiccated and protected from light. Store away from oxidizing agent.

## 8. Exposure Controls / Personal Protection

Engineering controls	Local exhaust ventilation is required where solids are handled as powders or crystals;
connois	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:
	<ul> <li>(a): particle dust respirators, if necessary, combined with an absorption cartridge;</li> <li>(b): filter respirators with absorption cartridge or canister of the right type;</li> </ul>
	(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.
PPE	Use personal protective equipment

## 9. Physical and Chemical Properties

Dangerous Reactions

2.1 hysical and Chemical Properties			
Physical State	Liquid		
Odour	Not available		
Solubility in Water	N/A		
Specific Gravity	Not available		
pН	Not available		
Boiling Point	Not available		
Melting Point	Not available		
Flash Point	N/A		
Vapor Pressure:	N/A		
Vapor Density:	N/A	N/A	
<b>10.</b> Stability and Reactivity			
Thermal Decomposition No data available		No data available	
Dangerous Products of Decomposition		No data available	

COx, NOx when burned

Keep container tightly closed in a dry well-ventilated place. Containers which are opened must be carefully resealed and kept upright. Store in -20°C refrigerator.

#### **11. Toxicological Information**

RTECS Number	CAS# 67-68-5; PV6210000
Toxicity	CAS# 67-68-5:
5	LD50 Oral-rat-14,5000mg/kg
	LD50 Inhilation-rat-4h-40250ppm
	LD50 Dermal-rabbit- >5,000 mg/kg
Health Hazards	CAS# 67-68-5:
	Genotoxicity in vivo-mouse- Intraperitoneal DNA damage
Potential Hazards	Skin Contact: May cause skin irritation.
	Eye Contact: May cause eye irritation
	Inhalation: May be harmful if inhaled
	Ingestion: May be harmful if swallowed
Carcinogenicity:	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
OSHA Permissible Exposure Limit(PEL) Data	N/A
ACGIH Threshold Limit Values (TLV)	N/A
Reproductive Toxicity:	
	CAS# 67-68-5:
	Genotoxicity in vivo-mouse- Intraperitoneal DNA damage
12 Factorized Information	
12. Ecological Information	
Toxicity to fish (CAS# 67-68-5)	
LD50- Pimephales promelas (fathead minnow)-34,	
LD50- Oncorhynchus mykiss (rainbow trout)- 35,0	000 mg/1- 96h

## 13. Disposal Considerations

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.

## 14. Transport Information

Hazard Class	N/A	
Identification Number	N/A	
Packing Group	CBL Packing group III	
Proper Shipping Name (DOT)	N/A	

## 15. Regulatory Information

California Proposition 65: N/A

US TSCA (Toxic Substance Control Act): CAS# 67-68-5 US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act: N/A US SARA Title III (Superfund Amendments and Reauthorization Act: CAS# 67-68-5 US Other: N/A

EC EINICS (European Inventory of Existing Commercial Chemical Substances) Number: N/A

EC Risk Statements: N/A

Other Country Regulations: N/A

## 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.