



**SAFETY DATA SHEET**  
**FAM-AEVD-FMK - FLUORESCEIN DERIVATIVE OF BENZYL CARBONYL  
ALANYLGLUTAMYLVALYLASPARTIC ACID FLUOROMETHYL KETONE**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name** FAM-AEVD-FMK - FLUORESCEIN DERIVATIVE OF BENZYL CARBONYL  
ALANYLGLUTAMYLVALYLASPARTIC ACID FLUOROMETHYL KETONE

**Synonyms; trade names** FAM-AEVD-FMK, AEVD

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses** For research use only.

**1.3. Details of the supplier of the safety data sheet**

**Supplier** Web: [www.bio-rad-antibodies.com](http://www.bio-rad-antibodies.com)  
Bio-Rad  
Endeavour House  
Langford Business Park  
Kidlington  
Oxford  
OX5 1GE  
[antibody\\_safetydatasheets@bio-rad.com](mailto:antibody_safetydatasheets@bio-rad.com)

**Contact person** Technical Services Manager

**1.4. Emergency telephone number**

**Emergency telephone** +1 7037415970 (CHEMTREC)

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification (EC 1272/2008)**

**Physical hazards** Not Classified

**Health hazards** Not Classified

**Environmental hazards** Not Classified

**Classification (67/548/EEC or -  
1999/45/EC)**

**2.2. Label elements**

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	May cause coughing or mild irritation.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Prolonged skin contact may cause redness and irritation.
<b>Eye contact</b>	May cause temporary eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Water spray, foam, dry powder or carbon dioxide.
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### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	Does not decompose when used and stored as recommended.

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	No specific firefighting precautions known.
<b>Special protective equipment for firefighters</b>	Use protective equipment appropriate for surrounding materials.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. Avoid contact with skin and eyes.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Avoid the spillage or runoff entering drains, sewers or watercourses.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Avoid contact with skin or inhalation of spillage, dust or vapour. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor.
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### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Avoid inhalation of dust and contact with skin and eyes. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep only in the original container. Store at specified temperature. Refer to product label.

#### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

#### 8.2. Exposure controls

##### Protective equipment



**Appropriate engineering controls** Provide adequate ventilation.

**Eye/face protection** Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

**Hand protection** Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

**Other skin and body protection** Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.

**Hygiene measures** Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. Wash promptly with soap and water if skin becomes contaminated.

**Respiratory protection** No specific recommendations.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

**Appearance** Dusty powder.

**Colour** Various colours.

**Odour** No characteristic odour.

**Melting point** Not determined.

**Initial boiling point and range** No data available.

**Flash point** Not determined.

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<b>Evaporation rate</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	Not determined.
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not determined.
<b>Oxidising properties</b>	Not determined.

### 9.2. Other information

**Other information** None.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** No data available.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not determined.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid exposure to high temperatures or direct sunlight.

### 10.5. Incompatible materials

**Materials to avoid** No data available.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** No information available.

### Skin corrosion/irritation

**Human skin model test** Not determined.

**Extreme pH** 7.2

### Serious eye damage/irritation

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<b>Serious eye damage/irritation</b>	Not determined.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Not determined.
<b>Genotoxicity - in vivo</b>	Not determined.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Not determined.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Not determined.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Not determined.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Not determined.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Not determined.
<b><u>General information</u></b>	
<b>General information</b>	No specific health hazards known.
<b>Inhalation</b>	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Liquid may irritate skin.
<b>Eye contact</b>	Vapour or spray in the eyes may cause irritation and smarting.
<b>Acute and chronic health hazards</b>	Because of the product's quantity and composition, the health hazard is regarded as low.
<b>Route of exposure</b>	Skin and/or eye contact
<b>Medical symptoms</b>	No specific symptoms noted.

### SECTION 12: Ecological Information

#### 12.1. Toxicity

##### Acute aquatic toxicity

**Acute toxicity - fish** Not determined.

#### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

#### 12.4. Mobility in soil

**Mobility** No data available.

#### 12.5. Results of PBT and vPvB assessment

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**Results of PBT and vPvB assessment**      No information available

### 12.6. Other adverse effects

**Other adverse effects**      Not determined.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information**      When handling waste, the safety precautions applying to handling of the product should be considered.

**Disposal methods**      Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

**General**      The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**Road transport notes**      Not classified.

**Rail transport notes**      Not classified.

**Sea transport notes**      Not classified.

**Air transport notes**      Not classified.

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Transport in bulk according to**      Not applicable.

**Annex II of MARPOL 73/78**

**and the IBC Code**

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## FAM-AEVD-FMK - FLUORESCIEIN DERIVATIVE OF BENZYL CARBONYL ALANYLGLUTAMYLVALYLASPARTIC ACID FLUOROMETHYL KETONE

<b>EU legislation</b>	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
<b>Guidance</b>	Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>General information</b>	Only trained personnel should use this material.
<b>Revision date</b>	02/04/2019
<b>Revision</b>	3
<b>Supersedes date</b>	25/09/2018
<b>SDS number</b>	20280
<b>Risk phrases in full</b>	Not classified.

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