

SAFETY DATA SHEET

FAM-VAD-FMK CARBOXYFLUORESCEIN DERIVATIVE OF VALYLALANYLASPARTIC ACID FLUOROMETHYL KETONE

SECTION 1: Identification of th	ne substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	FAM-VAD-FMK CARBOXYFLUORESCEIN DERIVATIVE OF VALYLALANYLASPARTIC ACID FLUOROMETHYL KETONE
Synonyms; trade names	VAD
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
Identified uses	For research use only.
1.3. Details of the supplier of the supplier of the supplier of the supplier of the supplication of the su	ne safety data sheet
Supplier	Web: www.bio-rad-antibodies.com Bio-Rad Endeavour House Langford Business Park Kidlington Oxford OX5 1GE antibody_safetydatasheets@bio-rad.com
Contact person	Technical Services Manager
1.4. Emergency telephone nur	nber
Emergency telephone	+1 7037415970 (CHEMTREC)
SECTION 2: Hazards identifica	ation
2.1. Classification of the subst	ance 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/info	rmation on ingredients
3.1. Substances	
Product name	FAM-VAD-FMK CARBOXYFLUORESCEIN DERIVATIVE OF VALYLALANYLASPARTIC

ACID FLUOROMETHYL KETONE

SECTION 4: First aid measures	
4.1. Description of first aid mea	asures
Inhalation	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.
Ingestion	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.
Skin contact	Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
Eye contact	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
Inhalation	May cause cause coughing or mild irritation.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	May cause temporary eye irritation.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	No specific recommendations.
SECTION 5: Firefighting meas	sures
5.1. Extinguishing media	
Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.
5.2. Special hazards arising fro	om the substance or mixture
Specific hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	Does not decompose when used and stored as recommended.
5.3. Advice for firefighters	
Protective actions during firefighting	No specific firefighting precautions known.
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.
SECTION 6: Accidental release	e measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. Avoid contact with skin and eyes.
6.2. Environmental precaution	<u>S</u>
Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses.
6.3. Methods and material for containment and cleaning up	
Methods for cleaning up	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.

6.4. Reference to other sections

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

Reference to other sections	wear protective clothing as described in Section 8 of this safety data sheet.
SECTION 7: Handling and st	orage
7.1. Precautions for safe han	dling
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 stora	ge, 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 Contr	ols/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 Ch	nemical Properties
9.1. Information on basic phy	sical 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.

Evaporation rate	Not applicable.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	Not determined.
Solubility(ies)	Soluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not determined.
Oxidising properties	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	
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	Net determined
Human skin model test	Not determined.
Extreme pH	7.2
Serious eye damage/irritation	

Serious eye damage/irritation	Not determined.	
Germ cell mutagenicity		
Genotoxicity - in vitro	Not determined.	
Genotoxicity - in vivo	Not determined.	
Carcinogenicity		
Carcinogenicity	Not determined.	
Reproductive toxicity Reproductive toxicity - fertility	Not determined.	
Specific target organ toxicity - STOT - single exposure	Not determined.	
Specific target organ toxicity -		
STOT - repeated exposure	Not determined.	
Aspiration hazard		
Aspiration hazard	Not determined.	
-		
General information	No specific health hazards known.	
Inhalation	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.	
Ingestion	May cause discomfort if swallowed.	
Skin contact	Liquid may irritate skin.	
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.	
Acute and chronic health hazards	Because of the product's quantity and composition, the health hazard is regarded as low.	
Route of exposure	Skin and/or eye contact	
Medical symptoms	No specific symptoms noted.	
SECTION 12: Ecological Information	nation	
12.1. Toxicity		
Acute aquatic toxicity		
Acute toxicity - fish	Not determined.	
12.2. Persistence and degrada	bility	
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		

Results of PBT and vPvB assessment	No information available
12.6. Other adverse effects	
Other adverse effects	Not determined.
SECTION 13: Disposal consid	derations
13.1. Waste treatment method	ds
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 inform	nation
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 nam	
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	

EU legislation	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).
Guidance	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	
General information	Only trained personnel should use this material.
Revision date	02/04/2019
Revision	3
Supersedes date	25/09/2018
SDS number	20286
Risk phrases in full	Not classified.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.