Safety Data Sheet (SDS)

Revision Number: 3.0	<u> </u>	Last updated .	January 16, 2019
1. Product and Company Idea	ntification_		
Product Name:	Fmoc - D - Glu - OtBu		
	N - α - t - F	moc - D - glutamic acid - α - t - bu	ıtyl ester
Manufacturer/Supplier:	AnaSpec, I	nc.	
	www.anasp	ec.com	
	34801 Campus Drive		
	Fremont, CA 94555		
	Tel: 510-791-9560		
	Fax: 510-791-9572		
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	Tel. +32-4-3727665		
Catalog Number	AS-61399-	1; AS-61399-5	

2. Hazards Identification

Emergency Overview: We do recommend handling all chemicals with caution. Use proper protective equipment when handling chemicals. To our knowledge, the hazards of this material have not been thoroughly investigated.

GHS Hazard Classification: N/A GHS Physical Hazards: N/A GHS Health and Environmental Hazards

GHS Signal Words: N/A

GHS Hazard Statements: H303,H313, Maybe harmful if swallowed or in contact with skin. Wear PPE.

GHS Precautionary Statements: P302, P340 May be respiratory irritant if inhaled. May cause respiratory tract

irritation.

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

HMIS Classification

Health hazard: 0

Chronic Health Hazard: 0

Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

3. Composition

Ingredients/Components:

Chemical Name: Fmoc - D - Glu - OtBu

N - α - t - Fmoc - D - glutamic acid - α - t - butyl ester

Molecular formula: C₂₄H₂₇NO₆

Molecular weight: 425.5

CAS-No N/A EC-No N/A

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 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.		

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	Observe the par	Observe the patient carefully.			
		ve water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably			
	drink.				
	Seek medical a	cal advice.			
Skin:	If skin or hair c	r contact occurs:			
	Flush skin and	hair with r	unning water (and soap if available).		
		Seek medical attention in event of irritation.			
Eyes:					
Lyes.		immediately with fresh running water.			
		re complete irrigation of the eye by keeping eyelids apart and away from eye and moving the			
		occasionally lifting the upper and lower lids.			
			seek medical attention.		
ii pain persists o		of feeding s	teck inedical attention.		
5. Fire Fig	hting Measures				
	·		lvv.		
Extinguishi	ng media:		Water spray or fog.		
			Alcohol resistant foam.		
			Dry chemical powder.		
			BCF (where regulations permit).		
			Carbon dioxide		
Special fire	fighting procedures:		Alert Emergency Responders and tell them location and nature of		
Special jirej	ngming procedures.		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.		
Unusual fire and explosions hazards:		ards:	Emits toxic fumes under fire conditions		
6. Acciden	tal Release Measur	<u>es</u>			
Spill respon	use I	Remove all	ignition sources.		
-F ZwF w		Clean up all spills immediately.			
		Avoid contact with skin and eyes.			
Control per Use dry cle			personal contact by using protective equipment.		
			an up procedures and avoid generating dust.		
			uitable, labeled container for waste disposal		
			ersonal contact, including inhalation.		
Containment		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 effect confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils.			
Avoid co When ha Keep co		Avoid contact with incompatible materials.			
			ndling, DO NOT eat, drink or smoke.		
			ntainers securely sealed when not in use.		
		avoia pnys	sical damage to containers.		

		hands with soap and water after handling.		
		upational work practice.		
		ners may contain residual dust which has the potential to accumulate		
		ling. Such dusts may explode in the presence of an appropriate		
	ignition sourc			
	Do NOT cut,	drill, grind or weld such containers		
PPE	Use personal	protective equipment		
7. Handling and Stora	age			
Store at 4 °C desiccate	ed and protected from	light. Store away from oxidizing agent.		
8. Exposure Controls	/ Personal Protection	<u>n</u>		
Engineering controls	even when particula	ocal exhaust ventilation is required where solids are handled as powders or crystals; ven when particulates are relatively large, a certain proportion will be powdered by		
		nutual friction. A provided the control of the con		
		exhaust an adverse concentration of the substance in air could occur,		
		on should be considered. Such protection might consist of:		
		spirators, if necessary, combined with an absorption cartridge;		
İ		s with absorption cartridge or canister of the right type;		
	(c): fresh-air hoods			
	* *	static charge on the dust particle, may be prevented by bonding and		
	grounding.			
		quipment such as dust collectors, dryers and mills may require		
		onal protection measures such as explosion venting. ontaminants generated in the workplace possess varying "escape" velocities which,		
		he "capture velocities" of fresh circulating air required to efficiently		
DDE	remove the contaminant.			
PPE	Use personal protec	tive equipment		
9. Physical and Chemi	ical Properties			
Physical State	White solid			
Odour	Not available			
Solubility in Water	Not available			
Specific Gravity	Not available			
pH	Not available			
Boiling Point	Not available			
Melting Point	Not available			
Flash Point	N/A			
Vapor Pressure:	N/A			
Vapor Density:	N/A			
10. Stability and Read	<u>etivity</u>			
Thermal Decomposition		No data available		
Dangerous Products of Decomposition		No data available		
Described Products of Decomposition				

COx, NOx when burned

Dangerous Reactions

Keep container tightly closed in a dry well-ventilated place. Store in 4°C refrigerator.

11. Toxicological Information

RTECS Number	N/A
Toxicity	No information available.
Health Hazards	Although ingestion is not thought to produce harmful effects, the material may still be damaging to the health of the individual following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.
Potential Hazards	Not available
Carcinogenicity:	No significant acute toxicological data identified
OSHA Permissible Exposure Limit(PEL) Data	N/A
ACGIH Threshold Limit Values (TLV)	N/A

Reproductive Toxicity:

No information available

12. Ecological Information

No information available.

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	N/A
Proper Shipping Name (DOT)	N/A

15. Regulatory Information

California Proposition 65: N/A

US TSCA (Toxic Substance Control Act): N/A

US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act: N/A

US SARA Title III (Superfund Amendments and Reauthorization Act: N/A

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.