Material Safety Data Sheet (MSDS)

Revision Number: 2.0	Last updated Jan 14, 2	2015
1. Product and Company Iden	<u>fication</u>	
Product Name:	Fmoc - 6 - Ahx – OH; Fmoc - 6 - aminohexanoic acid;	
	Fmoc - X; Fmoc - LC; Fmoc - epsilon - Ahx - OH	
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-20957; AS-20958 ; AS-21196-1	

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:

GHS Physical Hazards:

Skin irritation

Specific target organ toxicity- single exposure

GHS Health and Environmental Hazards

Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319

Specific target organ toxicity- single exposure (Category 3), Respiratory system, H335

GHS Signal Words: WARNING

GHS Hazard Statements:

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

H303,H313, Maybe harmful if swallowed or in contact with skin. Wear PPE.

GHS Hazard Symbol/Pictogram:



GHS Precautionary Statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/ eye protection/ face

protection

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position Comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P332+P313 If skin irritation occurs: Get medical advice/ attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403+P233 Store in well-ventilated place. Keep containers tightly closed.

P405 Store locked up

P501 Dispose of contents/containers to an approved waste disposal plant.

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: 2

Chronic Health Hazard: 0

Flammability: 0 *Physical hazards:* 0

NFPA Rating

Health hazard: 2

Fire: 0

Reactivity Hazard: 0

3. Composition

Ingredients/Components:

Chemical Name:

Fmoc - 6 - Ahx - OH; Fmoc - 6 - aminohexanoic acid; Fmoc - X;

Fmoc - LC; Fmoc - epsilon - Ahx - OH

Molecular formula: C₂₁H₂₃NO₄ Molecular weight: 353.4 CAS-No 88574-06-5 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.

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	If vomiting	occurs, lean pa	atient forward or place on left side (head-down position, if possible) to	
maintain open airway and Observe the patient caref		en airway and	prevent aspiration.	
			buth, then provide liquid slowly and as much as casualty can comfortably	
		to mise out me	ratin, then provide inquite slowly and as inden as eastably ear connormor	
drink. Seek medical advice.		al advisa		
C1 ·				
Skin:		ir contact occi		
			unning water (and soap if available).	
Seek medical a			event of irritation.	
Eyes: If this pro		ict comes in co	ontact with the eyes:	
	Wash out in	nmediately wit	th fresh running water.	
	Ensure com	plete irrigation	of the eye by keeping eyelids apart and away from eye and moving the	
			ting the upper and lower lids.	
			eek medical attention.	
	pain pers	or recars s	ook modean attention.	
5 Fire Fig	hting Measures			
			W	
Extinguishi	пд теала:		Water spray or fog.	
			Alcohol resistant foam.	
			Dry chemical powder.	
			BCF (where regulations permit).	
			Carbon dioxide	
Special fire	fighting procedu	ras:	Alert Emergency Responders and tell them location and nature of	
Speciai jire,	ngming procedui	es.	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 fir	e and explosions	hazards:	Emits toxic fumes under fire conditions	
6. Acciden	tal Release Mea	sures		
Spill respon	150	Remove all	ignition sources.	
Spill respon			l spills immediately.	
			•	
			act with skin and eyes.	
			sonal contact by using protective equipment.	
			an up procedures and avoid generating dust.	
			Place in a suitable, labeled container for waste disposal	
Containmer	it	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 ellier 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		When hand	ling, DO NOT eat, drink or smoke.	

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	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.
PPE	Do NOT cut, drill, grind or weld such containers Use personal protective equipment

7. Handling and Storage

Store at 4 °C desiccated and protected from light. Store away from oxidizing agent.

8. Exposure Controls / Personal Protection

even v mutua Exhau particu If in sp respira (a): pa (b): fil (c): fre	exhaust ventilation is required where solids are handled as powders or crystals; when particulates are relatively large, a certain proportion will be powdered by all friction. Instruction should be designed to prevent accumulation and re-circulation of ulates in the workplace. In pite of local exhaust an adverse concentration of the substance in air could occur,
additio Air co	attory protection should be considered. Such protection might consist of: article dust respirators, if necessary, combined with an absorption cartridge; lter respirators with absorption cartridge or canister of the right type; esh-air hoods or masks -up of electrostatic charge on the dust particle, may be prevented by bonding and ding. er handling equipment 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,
	n, determine the "capture velocities" of fresh circulating air required to efficiently the contaminant.
	ersonal protective equipment

9. Physical and Chemical Properties

Physical State	White solid
Odour	Not available
Solubility in Water	Not available
Specific Gravity	Not available
рН	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 Reactivity

Thermal Decomposition	No data available
Dangerous Products of Decomposition	No data available
Dangerous Reactions	COx, NOx when burned

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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.