Safety Data Sheet (SDS)

Revision Number: <b>3.0</b>		Last updated March 10, 2021
1. Product and Company Iden	<u>itification</u>	
Product Name:	Fmoc - (2S,	4S) - (-) - 4 - hydroxypyrrolidine - 2 - carboxylic
	acid	
	Fmoc - cis -	4 - hydroxy - L - proline
Manufacturer/Supplier:	AnaSpec, Ir	ic.
	www.anasp	ec.com
	34801 Cam	pus Drive
	Fremont, CA 94555	
	Tel: 510-791-9560	
	Fax: 510-79	1-9572
	Email: servi	ce@anaspec.com
	Kaneka Eur	ogentec SA,
	Rue du Bois	S Saint Jean 5 4102 Seraing Belgium
	Tel. +32-4-3	3727400
	Fax. +32-4-	3727500
	E-mail info	@eurogentec.com
	Kaneka Eur	ogentec Helpdesk
	Tel. +32-4-3	
Catalog Number	AS-26146 -	F025

## 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: Not a hazardous substance or mixture

GHS Physical Hazards: Not a hazardous substance or mixture

GHS Health and Environmental Hazards: Not a hazardous substance or mixture

GHS Signal Words: N/A

GHS Hazard Symbol/Pictogram: N/A

GHS Hazard Statements: N/A

GHS Precautionary Statements:

P260: Do not breathe dust/fume/gas/mist/vapours/spray

P280: Wear protective gloves/ protective clothing/eye protection

P302+P350 If ON SKIN- gently wash with plenty of soap and water

P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue Rinsing irritation. Maybe harmful if swallowed or in contact with skin. Wear PPE.

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 - (2S,4S) - ( - ) - 4 - hydroxypyrrolidine - 2 - carboxylic acid;

Fmoc - cis - 4 - hydroxy - L - proline Molecular formula: C20H19NO5

Molecular weight: 353.4 CAS-No 189249-10-3

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.

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Ingestion: If swallowed do <b>NOT</b> i		uce vomiting.
		atient forward or place on left side (head-down position, if possible) to
	Observe the patient carefu	
		buth, then provide liquid slowly and as much as casualty can comfortably
	drink.	and their provide riquid slowly and as mach as easuatey can connormally
	Seek medical advice.	
Skin:	If skin or hair contact occu	1100
Skin.		
		unning water (and soap if available).
	Seek medical attention in 6	
Eyes:	If this product comes in co	
	Wash out immediately wit	
		of the eye by keeping eyelids apart and away from eye and moving the
		ting the upper and lower lids.
	If pain persists or recurs se	eek medical attention.
5. Fire Fighti	ing Measures	
Extinguishing	media:	Water spray or fog.
		Alcohol resistant foam.
		Dry chemical powder.
		BCF (where regulations permit).
		Carbon dioxide
		Carbon dioxide
Special firefig	hting procedures:	Alert Emergency Responders and tell them location and nature of
	0.1	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 a	nd explosions hazards:	Emits toxic fumes under fire conditions
6. Accidental	Release Measures	
Spill response		ignition sources.
		spills immediately.
	Avoid conta	act with skin and eyes.
	Control pers	sonal contact by using protective equipment.
		an up procedures and avoid generating dust.
		uitable, labeled container for waste disposal
Containment		ersonal contact, including inhalation.
Comamment		
		ctive clothing when risk of exposure occurs.
		ll-ventilated area.
		nter confined spaces until atmosphere has been checked.
		low material to contact humans, exposed food or food utensils.
	Avoid conta	act with incompatible materials.

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	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 Stor	rage
	ted and protected from light. Store away from oxidizing agent.
store at 4 Cuesicca	ted and protected from fight. Store away from oxidizing agent.
8. Exposure Control	s / Personal Protection
Engineering controls	Local exhaust ventilation is required where solids are handled as powders or crystals;
	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.
	particulates in the workplace.  If in spite of local exhaust an adverse concentration of the substance in air could occur,
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PPE	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:  (a): particle dust respirators, if necessary, combined with an absorption cartridge;  (b): filter respirators with absorption cartridge or canister of the right type;  (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,

# 9. Physical and Chemical Properties

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Physical State	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.