Creosalus, Inc (Advanced ChemTech) www.AdvancedChemTech.com SAFETY DATA SHEET

Revision Date 06/22/2015

. PRODUC .1					
.1	CT AND COMPANY IDENTIFICAT	FION			
	Product identifiers				
	Product name	: Fmoc-Lysinol(Boc)			
	Product Number	FK4398			
	Brand	: Advanced ChemTech			
-	CAS-No.	: 198561-38-5			
.2	Relevant identified uses of the s Identified uses	substance or mixture and uses advised against			
	: Laboratory chemicals, Manufacture of substances				
.3	Details of the supplier of the safety data sheet				
	Company	: Creosalus, Inc.			
		5609 Fern Valley Rd, Louisville, KY 40228 USA			
	Telephone	:+1 800-456-1403			
	Fax	: +1 502-968-1000			
.4	Emergency telephone number	: +1 800-424-9300 Chemtrec			
ΗΔ7ΔRΓ	DS IDENTIFICATION				
.1		or mixture: Not a hazardous substance or mixture			
.2	GHS Label elements, including precautionary statements: Not a hazardous substance or mixture				
.3	Hazards not otherwise classifie	d (HNOC) or not covered by GHS – none			
COMPO	SITION/INFORMATION ON INGR	EDIENTS			
.1	Substances				
••	Formula	: C ₂₆ H ₃₄ N ₂ O ₅			
	Molecular Weight	: 454.57g/mole			
	CAS-No.	: 198561-38-5			
	No ingredients are hazardous acc				
	No components need to be disclo	sed according to the applicable regulations.			
FIDOT A					
	ID MEASURES	_			
.1	Description of first aid measure				
	If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.				
	In case of skin contact: Wash of	f with soap and plenty of water.			
	In case of eye contact: Flush eye	es with water as a precaution.			
		g by mouth to an unconscious person. Rinse mouth with water.			
.2		effects, both acute and delayed: The most important known symptoms and effects are described in the			
.2					
-	labeling (see section 2.2) and/or in				
.3	Indication of any immediate me	dical attention and special treatment needed: No data available			
FIREFIG	HTING MEASURES				
.1					
. 1	Extinguishing media Oxide anti-activity of the sector and the langest sector of the sector of the sector of the sector of the sector				
		Jse water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			
.2	Special hazards arising from the	e substance or mixture: Carbon oxides, nitrogen oxides (NOx)			
.3	Advice for firefighters: Wear sel	f contained breathing apparatus for fire fighting if necessary.			
.4	Further information: No data ava	ailable			
	NTAL RELEASE MEASURES				
.1		e equipment, and emergency procedure Avoid breathing vapours, mist, or gas. For personal protectio			
	see section 8.				
.2	Environmental precautions: Do	not let product enter drains.			
.3		ainment and cleaning up: Keep in suitable, closed containers for disposal.			
	Reference to other sections: Fo	animental sub section 13			
.4					
.4	NG AND STORAGE				
	NG AND STORAGE				
. HANDLI		Normal measures for preventive fire protection. For precautions see section 2.2			
. HANDLI .1	Precautions for safe handling:	Normal measures for preventive fire protection. For precautions see section 2.2. including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place			
. HANDLI	Precautions for safe handling: Conditions for safe storage,	including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place			
. HANDLI .1 .2	Precautions for safe handling: I Conditions for safe storage, Containers which are opened mus	including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place st be carefully resealed and kept upright to prevent leakage			
. HANDLI .1	Precautions for safe handling: I Conditions for safe storage, Containers which are opened mus	including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place			
. HANDLI .1 .2 .3	Precautions for safe handling: I Conditions for safe storage, Containers which are opened mus	including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place st be carefully resealed and kept upright to prevent leakage he uses mentioned in section 1.2 no other specific uses are stipulated			
. HANDLI .1 .2 .3	Precautions for safe handling: f Conditions for safe storage, Containers which are opened mus Specific end use(s): Apart from t	including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place st be carefully resealed and kept upright to prevent leakage he uses mentioned in section 1.2 no other specific uses are stipulated			
. HANDLI .1 .2 .3 . EXPOSU	Precautions for safe handling: I Conditions for safe storage, Containers which are opened mus Specific end use(s): Apart from t JRE CONTROLS/PERSONAL PR Control parameters	including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place st be carefully resealed and kept upright to prevent leakage he uses mentioned in section 1.2 no other specific uses are stipulated			
. HANDLI .1 .2 .3 . EXPOSU .1	Precautions for safe handling: I Conditions for safe storage, Containers which are opened mus Specific end use(s): Apart from to JRE CONTROLS/PERSONAL PR Control parameters Components with workplace co	including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place st be carefully resealed and kept upright to prevent leakage he uses mentioned in section 1.2 no other specific uses are stipulated OTECTION			
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. HANDLI .1 .2 .3 . EXPOSU .1	Precautions for safe handling: f Conditions for safe storage, Containers which are opened mus Specific end use(s): Apart from t JRE CONTROLS/PERSONAL PR Control parameters Components with workplace co Exposure controls Appropriate engineering control	including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place st be carefully resealed and kept upright to prevent leakage he uses mentioned in section 1.2 no other specific uses are stipulated OTECTION			
. HANDLI .1 .2 .3 . EXPOSU .1	Precautions for safe handling: f Conditions for safe storage, Containers which are opened mus Specific end use(s): Apart from t JRE CONTROLS/PERSONAL PR Control parameters Components with workplace co Exposure controls Appropriate engineering contro Personal protective equipment	including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place st be carefully resealed and kept upright to prevent leakage he uses mentioned in section 1.2 no other specific uses are stipulated OTECTION Introl parameters: Contains no substances with occupational exposure limit values.			
. HANDLI .1 .2 .3 . EXPOSU .1	Precautions for safe handling: I Conditions for safe storage, Containers which are opened mus Specific end use(s): Apart from t JRE CONTROLS/PERSONAL PR Control parameters Components with workplace co Exposure controls Appropriate engineering contro Personal protective equipment Eye/face protection: Use equip	including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place st be carefully resealed and kept upright to prevent leakage he uses mentioned in section 1.2 no other specific uses are stipulated OTECTION Introl parameters: Contains no substances with occupational exposure limit values.			
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Respiratory protection: Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Do not let product enter drains.

9. PHY	SICAL AND CHEMICAL PROPERTIES				
9.1	Information on basic physical and chemical properties				
	a) Appearance	Form: White to Off-White powder			
	b) Odor	no data available			
	c) Odor Threshold	no data available			
	d) pH	no data available			
	 e) Melting point/freezing point 	no data available			
	f) Initial boiling point and boiling range	no data available			
	g) Flash point	no data available			
	 h) Evaporation rate 	no data available			
	i) Flammability (solid, gas)	no data available			
	 j) Upper/lower flammability or explosive limits 	no data available			
	k) Vapor pressure	no data available			
	I) Vapor density	no data available			
	m) Relative density	no data available			
	 n) Water solubility 	no data available			
	 Partition coefficient: n- octanol/water 	no data available			
	p) Auto-ignition temperature	no data available			
	 q) Decomposition temperature 	no data available			
	r) Viscosity	no data available			
	 s) Explosive properties 	no data available			
	 t) Oxidizing properties 	no data available			
9.2	Other safety information:	no data available			

10. STABILITY AND REACTIVITY

- **10.1** Reactivity: No data available
- 10.2 Chemical stability: Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions: No data available
- 10.4 Conditions to avoid: No data available
- 10.5 Incompatible materials: Strong oxidizing agents
- 10.6 Hazardous decomposition products: Other decomposition products no data available. In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
 - Acute toxicity: No data available
 - Inhalation: No data available
 - Dermal: No data available
 - Skin corrosion/irritation: No data available
 - Serious eye damage/eye irritation: No data available
 - Respiratory or skin sensitization: No data available
 - Germ cell mutagenicity: No data available
 - Carcinogenicity:
 - IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
 - ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
 - NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
 - OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
 - Reproductive toxicity: No data available
 - Specific target organ toxicity single exposure: No data available
 - Specific target organ toxicity repeated exposure: No data available
 - Aspiration hazard: No data available
 - Additional Information: RTECS: Not available

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity: No data available
- 12.2 Persistence and degradability: No data available
- 12.3 Bioaccumulative potential: No data available
- 12.4 Mobility in soil: No data available
- 12.5
 Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

 12.6
 Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS 13.1 Waste treatment method

- Waste treatment methods Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging: Dispose of as unused product.
- 14. TRANSPORT INFORMATION
 - DOT (US)
 - Not dangerous goods

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IMDG
Not dangerous goods
IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards: No SARA Hazards Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components Fmoc-Lysinol(Boc) CAS-No. **Revision Date** 198561-38-5

New Jersey Right to Know Components Fmoc-Lysinol(Boc) CAS-No. 198561-38-5

Revision Date

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating	
Health hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0
NFPA Rating	
Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. CreoSalus, Inc. shall not be liable for any damage resulting in the handling or from contact with the above product.

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