Safety Data Sheet (SDS)

Revision Number: 2.0	Last updated 25 J	uly 2019
1. Product and Company Ide	<u>ification</u>	
Product Name:	[Lys(Ac) ⁴⁰] - Ac - a - Tubulin (29 - 50) - WGK(Biotin); TubK4	0(Ac) -
	WGK, biotin - labeled;	
	Ac - GIQPDGQMPSD - K(ac) - TIGGGDDSFNWG - K(b	piotin)
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-65411-1	

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:

GHS Health and Environmental Hazards

GHS Signal Words: None

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: [Lys(Ac)⁴⁰] - Ac - a - Tubulin (29 - 50) - WGK(Biotin); TubK40(Ac) - WGK, biotin - labeled;

Ac - GIQPDGQMPSD - K(ac) - TIGGGDDSFNWG - K(biotin)

Molecular formula: N/A Molecular weight: 2918.2

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

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.
	Observe the patient carefully.
	Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably
	drink.
	Seek medical advice.
Skin:	If skin or hair contact occurs:
	Flush skin and hair with running water (and soap if available).
	Seek medical attention in event of irritation.
Eyes:	If this product comes in contact with the eyes:
	Wash out immediately with fresh running water.
	Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the
	eyelids by occasionally lifting the upper and lower lids.
	If pain persists or recurs seek medical attention.

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Extinguishing media:		Water spray or fog.
		Alcohol resistant foam.
		Dry chemical powder.
		BCF (where regulations permit).
		Carbon dioxide
Special firefighting pro	 ocedures:	Alert Emergency Responders and tell them location and nature of
1 0 00 01		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:		Emits toxic fumes under fire conditions
6. Accidental Release	Measures	
Spill response		ll ignition sources.
	Clean up all spills immediately.	
	Avoid contact with skin and eyes.	
		ersonal contact by using protective equipment.
		ean up procedures and avoid generating dust.
		suitable, labeled container for waste disposal
Containment		personal contact, including inhalation.
		ective clothing when risk of exposure occurs.
	Use in a well-ventilated area.	
	DO NOT 6	enter confined spaces until atmosphere has been checked.
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8. Exposure Controls Engineering controls	Local exhaust ventile even when particular mutual friction. Exhaust ventilation particulates in the ware of local experiments of local experiments (a): particle dust respiratory protection (a): particle dust respirators (b): filter respirators (c): fresh-air hoods (b) Build-up of electros grounding. Powder handling equaditional protection Air contaminants gein turn, determine the	lation is required where solids are handled as powders or crystals; ites are relatively large, a certain proportion will be powdered by should be designed to prevent accumulation and re-circulation of torkplace. In should be considered. Such protection might consist of: pirators, if necessary, combined with an absorption cartridge; with absorption cartridge or canister of the right type; or masks tatic charge on the dust particle, may be prevented by bonding and uipment such as dust collectors, dryers and mills may require a measures such as explosion venting. Interest a such as explosion venting.
PPE	Use personal protect	
9. Physical and Chem Physical State	ical Properties White Powder	
Odor	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 Read		
Thermal Decomposition	n	No data available
Dangerous Products of	Decomposition	No data available
Dangerous Reactions		COx, NOx when burned
	·	ntilated place. Store in -20°C refrigerator.
11. Toxicological Info	<u>rmation</u>	
RTECS Number N/A		
Toxicity		No information available.

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.
Not available
No significant acute toxicological data identified
N/A
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.