

# Material Safety Data Sheet (MSDS)

Revision Number: <b>1.1</b>	Last updated <b>14 February, 2012</b>
-----------------------------	---------------------------------------

## Product and Company Identification

Product Name:	[Gla17,21,24] - Osteocalcin (1 - 49)
Manufacturer/Supplier:	AnaSpec, Inc. <a href="http://www.anaspec.com">www.anaspec.com</a> 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572 Email: <a href="mailto:service@anaspec.com">service@anaspec.com</a>
Catalog Number	22831
Unit Size	1 mg

## Hazards Identification

### Emergency Overview:

#### GHS Hazard Classification:

GHS Physical Hazards: N/A

GHS Health and Environmental Hazards: Skin Irritation  
Eye Irritation

GHS Signal Words: N/A

GHS Hazard Statements: N/A

GHS Precautionary Statements: N/A

#### HMIS Classification

Health hazard: 0

Chronic Health Hazard: 0

Flammability: 0

Physical hazards: 0

#### NFPA Rating

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

## Composition / Information on Ingredients

### Ingredients/Components:

Chemical Name:	CAS Number:	Molecular Formula:	Molecular Weight:
[Gla17,21,24] - Osteocalcin (1 - 49), cyclized	N/A	C <sub>269</sub> H <sub>381</sub> N <sub>67</sub> O <sub>82</sub> S <sub>2</sub>	5929.5

AnaSpec Inc.

34801 Campus Drive, Fremont, CA 94555

Toll-Free: 800-452-5530 • Tel: 510-791-9560 • Fax: 510-791-9573

<b><u>First Aid Measures</u></b>	
<i>Inhalation:</i>	If inhaled, move to fresh air. If not breathing, give artificial respiration.
<i>Ingestion:</i>	If swallowed, wash mouth with water if the person is conscious. Call a physician.
<i>Skin:</i>	In case of skin contact, flush with plenty amount of water at least 15 minutes.
<i>Eyes:</i>	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
<b><u>Fire Fighting Measures</u></b>	
<i>Extinguishing media:</i>	Water spray, Carbon dioxide, alcohol-resistant foam, dry chemical powder.
<i>Special firefighting procedures:</i>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
<i>Unusual fire and explosions hazards:</i>	Emits toxic fumes under fire conditions
<b><u>Accidental Release Measures</u></b>	
<i>Spill response</i>	Evacuate area, avoid breathing vapors, mist or gas
<i>Containment</i>	Sweep up and shovel. Do not let product enter drains.
<i>PPE</i>	Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves
<b><u>Handling and Storage</u></b>	
Handling User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.	
Storage Suitable: Storage at -20°C, Keep container tightly closed.	
<b><u>Exposure Controls / Personal Protection</u></b>	
<i>Engineering controls</i>	Mechanical exhaust required.
<i>PPE</i>	Respiratory protection is not required. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). If protection from nuisance levels of dusts is desired, use type N95 (US) or type P1 (EN 143) respirator. Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.
<b><u>Physical and Chemical Properties</u></b>	
<i>Physical State</i>	White Powder
<i>Odor</i>	N/A
<i>Solubility in Water</i>	Soluble in Water
<i>Specific Gravity</i>	N/A
<i>PH</i>	N/A
<i>Boiling Point</i>	N/A
<i>Melting Point</i>	N/A
<i>Flash Point</i>	N/A
<i>Vapor Pressure:</i>	N/A
<i>Vapor Density:</i>	N/A

**AnaSpec Inc.**

34801 Campus Drive, Fremont, CA 94555

Toll-Free: 800-452-5530 • Tel: 510-791-9560 • Fax: 510-791-9573

<b><u>Stability and Reactivity</u></b>	
<i>Thermal Decomposition</i>	N/A
<i>Dangerous Products of Decomposition</i>	N/A
<i>Dangerous Reactions</i>	N/A
<b><u>Toxicological Information</u></b>	
<i>RTECS Number</i>	N/A
<i>Toxicity</i>	N/A
<i>Health Hazards</i>	The toxicological properties have not been thoroughly investigated.
<i>Potential Hazards</i>	<b>Skin contact:</b> May cause skin irritation <b>Skin absorption:</b> may be harmful if absorbed through the skin <b>Inhalation:</b> Material may be irritating to mucous membranes and upper respiratory tract, May be harmful if inhaled <b>Ingestion:</b> May be harmful if swallowed
<i>Carcinogenicity:</i>	N/A
<i>OSHA Permissible Exposure Limit(PEL) Data</i>	N/A
<i>ACGIH Threshold Limit Values (TLV)</i>	N/A
<b><u>Ecological Information</u></b>	
N/A	
<b><u>Disposal Considerations</u></b>	
Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.	
<b><u>Transport Information</u></b>	
<i>Hazard Class</i>	This substance is considered to be non-hazardous for transport
<i>Identification Number</i>	N/A
<i>Packing Group</i>	N/A
<i>Proper Shipping Name (DOT)</i>	Not dangerous product.
<b><u>Regulatory Information</u></b>	
<i>California Proposition 65:</i> N/A <i>US TSCA (Toxic Substance Control Act):</i> N/A <i>US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):</i> N/A <i>US SARA Title III (Superfund Amendments and Reauthorization Act):</i> Not containing any chemical components exceeding threshold. <i>US Other:</i> N/A  <i>EC EINECS (European Inventory of Existing Commercial Chemical Substances) Number:</i> N/A <i>EC Risk Statements:</i> N/A  <i>Other Country Regulations:</i> N/A	
<b><u>Other Information</u></b>	
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.

**AnaSpec Inc.**

34801 Campus Drive, Fremont, CA 94555

Toll-Free: 800-452-5530 • Tel: 510-791-9560 • Fax: 510-791-9573