

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name: Thioguanosine
Product Code: T11125

Emergency Phone: CHEMTREC, US: 1-800-424-9300
CHEMTREC, International: 1-703-527-3887

SECTION 2: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name: Thioguanosine
Synonyms: 6-Mercaptoguanosine
CAS Number: 85-31-4
Molecular Formula: C₁₀H₁₃N₅O₄S
Molecular Weight: 299.30

SECTION 3: HAZARDS IDENTIFICATION

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, inhalation or skin absorption.

Chronic Health Hazard: Not Available

HMIS Rating: H:1 F:1 R:0

NFPA Rating: H:1 F:1 R:0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

SECTION 4: FIRST AID MEASURES

Eye Contact: Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.

| | |
|----------------------|--|
| <u>Skin Contact:</u> | Wash skin with soap and water. If irritation persists, seek medical attention. |
| <u>Ingestion:</u> | Do not induce vomiting. Seek medical attention. |
| <u>Inhalation:</u> | Move to a fresh air environment. Contact a physician if breathing becomes difficult. |

SECTION 5: FIRE FIGHTING MEASURES

| | |
|-----------------------------------|--|
| <u>Flash Point:</u> | Not Available |
| <u>Explosion Limits:</u> | Lower: Not Available Upper: Not Available |
| <u>Auto Ignition Temperature:</u> | Not Available |
| <u>Extinguishing Media:</u> | Carbon dioxide, dry chemical powder or foam, water spray. |
| <u>Protective Equipment:</u> | Wear self-contained respirator and fully protective impervious suit. |
| <u>Specific Hazards:</u> | Emits hazardous fumes under fire conditions. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|---|
| <u>Personal Protection:</u> | Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Keep unprotected persons away. |
| <u>Environmental Protection:</u> | Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete. |

SECTION 7: HANDLING and STORAGE

| | |
|-----------------------------|--|
| <u>Handling:</u> | Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away. |
| <u>Storage:</u> | Store in a tightly closed container in a dry, well-ventilated place. |
| <u>Storage Temperature:</u> | 15 - 30°C |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | | |
|-------------------------|---|---------------|-------------|---------------|
| <u>Eyes:</u> | Wear appropriate protective eyeglass or chemical safety goggles. Eyewash facility in vicinity. | | | |
| <u>Skin:</u> | Wear impervious gloves and protective clothing. | | | |
| <u>Respiratory:</u> | Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced. | | | |
| <u>Exposure Limits:</u> | <u>Country</u> | <u>Source</u> | <u>Type</u> | <u>Value</u> |
| | USA | ACGIH | TWA | Not Available |
| | USA | OSHA | PEL | Not Available |

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

| | |
|---|---------------|
| <u>Appearance:</u> | Powder |
| <u>Odor:</u> | Not Available |
| <u>Melting Point:</u> | Not Available |
| <u>Boiling Point:</u> | Not Available |
| <u>Density:</u> | Not Available |
| <u>Refractive Index, n_D^{20}:</u> | Not Available |
| <u>Viscosity:</u> | Not Available |
| <u>Solubility in Water:</u> | Not Available |

SECTION 10: STABILITY and REACTIVITY

| | |
|-------------------------|---|
| <u>Stability:</u> | Stable under normal temperatures and pressures. |
| <u>Incompatibility:</u> | Strong oxidizing agents. |

SECTION 11: TOXICOLOGICAL INFORMATION

| | |
|-----------------------|---------------|
| <u>RTECS Number:</u> | UP0200000 |
| <u>Target Organs:</u> | Not Available |
| <u>Toxicity Data:</u> | Not Available |

SECTION 12: ECOLOGICAL INFORMATION

Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

DOT: Not regulated non-hazardous for transport

IATA: Not regulated non-hazardous for transport

SECTION 15: REGULATORY INFORMATION

United States:

Toxic Substance Control Act (TSCA): Listed

Superfund Amendments and Reauthorization Act (SARA 302): Not listed

Superfund Amendments and Reauthorization Act (SARA 313): Not listed

International:

European Inventory of Existing Chemical Substances (EINECS): Listed (201-597-2)

Canadian Domestic Substances List (DSL): Not listed

SECTION 16: OTHER INFORMATION

Date Prepared: 5/9/2008 MAB

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgment to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.