

AERCHEM INC.
320 North Walnut
Bloomington, IN 47408

Telephone: 812.334.9996

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Emergency: 800.424.9300

SECTION 1: IDENTIFICATION

Product name: Guanidine Thiocyanate
Chemical name or synonyms: Guanidine Thiocyanate; Guanidinium Thiocyanate
Chemical family: Not specified
Molecular formula: C₂ H₆ N₄ S
RTECS number: XL1225000
CAS number: 593-84-0

SECTION 2: HAZARDOUS INGREDIENTS

Ingredient:	Guanidine Thiocyanate
CAS number:	593-84-0
% WT:	99.9%
Exposure levels:	None established

SECTION 3: PHYSICAL DATA

Boiling point:	No data available
Vapor pressure (MM HG):	No data available
Vapor density (AIR=1):	No data available
Solubility (water):	Soluable
Specific gravity:	No data available
Percent volatile:	No data available
Evaporation rate:	No data available
Appearance:	White powder; no odor

SECTION 4: FIRE AND EXPLOSION HAZARDS

Flash point (method) / Flammable limits (LEL-VEL):	No data available
Extinguishing media:	Media suitable to extinguish the supporting or surrounding fire.
Special fire fighting procedures:	Use respirator
Unusual fire and explosion hazards:	May evolve toxic gases (Sulfur Dioxide, Nitrogen Dioxide, Carbon Dioxide or Carbon Monoxide).

SECTION 5: HEALTH HAZARD DATA

Effects of overexposure:

Eyes:	No toxicity data found, but contact may cause irritation and slight corneal injury.
Skin:	No toxicity data found, but contact may cause irritation and/or allergic reaction.
Inhalation:	No toxicity data found, but excessive dust may cause irritation if inhaled.
Ingestion:	May cause nausea, diarrhea, hyperirritability, tremors, ataxia, seizures, atrial fibrillation, hypotension, hypoglycemia, increased creatinine and bone marrow suppression.

Additional information:

Toxicity data listed in RTECS under XL1225000.

Emergency and first aid information:

Eyes: Flush with water for 15 min. Call a physician if irritation persists.
Skin: Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Call a physician if irritation persists.

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Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Call a poison control center or physician immediately.
Ingestion: Drink water and call a poison control center or physician immediately. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person.

SECTION 6: REACTIVITY DATA

Stability: Stable-avoid heat
Incompatibility: Avoid iron, oxidizers. Material is organic and may ignite.
Hazardous decomposition products: No information available
Hazardous Polymerization: Will not occur

SECTION 7: SPILL AND DISPOSAL INFORMATION

Spills: Wear appropriate personal protective equipment and clothing. Collect in a manner that will not create dust. Avoid contact of material with skin or eyes. Use adequate ventilation.
Waste disposal: Dispose of material in accordance with applicable local, state and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory protection: NIOSH approved dust mask. A qualified industrial hygienist should evaluate the need for respiratory protection. Use respiratory protection approved by NIOSH and appropriate to the hazard.
Ventilation: Mechanical (general) or local exhaust, as needed to control exposure to dust, vapors or mists.
Protective gloves: Recommended.
Eye protection: Safety glasses.
Other: Lab coat or other long sleeved garment to limit skin exposure. Access to a safety shower and eye-wash.
Precautions and comments: Material can denature proteins. Handle with caution. Do not inhale, ingest or allow material to contact skin or eyes.

SECTION 9: TRANSPORT INFORMATION:

DOT classification: not a DOT regulated material.