GELEST, INC.
11 East Steel Rd. Morrisville, PA 19067
Phone: (215) 547-1015

MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **GALLIUM TRIS[HEXAMETHYLDISILAZIDE] - SIG4998.0**
CHEMICAL NAME: GALLIUM TRIS[HEXAMETHYLDISILAZIDE]
SYNONYMS: GALLIUM TRIS[BIS(TRIMETHYLSILYL)AMIDE]
CHEMICAL FAMILY: GALLIUM COMPOUND
FORMULA: $C_{18}H_{54}N_3GaSi_6$
HMIS CODES HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV
GALLIUM TRIS[HEXAMETHYLDISILAZIDE]	35450-28-3	>95	not established

PHYSICAL DATA

Boiling Point: 120°C @ 0.5mm-sub
Melting Point: 186-7°C
Specific Gravity: not determined
Vapor Pressure, 25°: <0.01mm
Vapor Density: NA
Solubility in water: reacts
% volatiles NA
Evaporation rate: NA
Molecular Weight: 550.88
Other: NA
Appearance & Color: White powder, characteristic odor

FIRE & EXPLOSION DATA

Flash Point, COC: NA
Autoignition Temp.: not determined
Flammability Limits: not determined

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.
Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.
Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose, LC: Lethal Concentration; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; HMIS: Hazardous Material information System; CAS No.: Chemcial Abstract Service Registration Number
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ENVIRONMENTAL INFORMATION

Spill response: Sweep material and transfer to a suitable container for disposal.

Recommended Disposal: Dispose of as solid waste. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: Will cause immediate or delayed severe eye irritation.

Skin contact: May produce irritation or contact dermatitis. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of dust or particulates may irritate the respiratory tract.

Oral Toxicity: not determined
Chronic Toxicity: not determined

SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Flush with water, then wash with soap and water.

INHALATION: Move exposed individual to fresh air. Administer oxygen if needed. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

REACTIVITY DATA

Stability: Stable
Conditions to avoid: Material decomposes slowly in contact with air by reaction with water and carbon dioxide.
Hazardous decomposition products: Organic acid vapors, hexamethyldisilazane and GALLIUM oxide fumes.

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SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.
Respiratory Protection: If exposure exceeds TLV, NIOSH approved dust and mist respirator.
Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses.
Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

OTHER PRECAUTIONS

For research use only.

Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: None required
DOT HAZARD CLASS: None required
DOT LABEL: None required
DOT ID No: None required

Prepared by safety and environmental affairs ISSUE DATE SIG4998.0: 1/4/07
SUPERSEDES: 7/12/04

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