

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **NONAMETHYLTRISILAZANE - SIN6597.9**  
CHEMICAL NAME: NONAMETHYLTRISILAZANE  
SYNONYMS: TRIS(TRIMETHYLSILYL)AMINE, NITRILOTRIS(TRIMETHYLSILANE)  
CHEMICAL FAMILY: ORGANOSILANE  
FORMULA: C<sub>9</sub>H<sub>27</sub>NSi<sub>3</sub>

HMIS CODES HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
NONAMETHYLTRISILAZANE	1586-73-8	>95	not established

**PHYSICAL DATA**

Boiling Point: 76°C at 12mm	Melting Point: 70°C
Specific Gravity: 0.863	Vapor Pressure, 20°: >2mm
Vapor Density (air=1): >1	Solubility in water: insoluble, reacts
% volatiles: 100	Evaporation rate: not determined
Molecular Weight: 233.58	Other: NA
Appearance & Color: White crystalline solid with ammonia odor.	

**FIRE & EXPLOSION DATA**

Flash Point, COC: 67°C (153°F) 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. Liquid generates strong static charge when poured.

-1-(SIN6597.9)

## ENVIRONMENTAL INFORMATION

Spill response: May be hazardous to aquatic life if released to open waters. Cover spill with absorbent material. Transfer to a suitable container for disposal.

Recommended Disposal: May be incinerated. Alternately, absorb onto clay or vermiculite and dispose of absorbent material as solid waste. Follow all chemical pollution control regulations.

## HEALTH HAZARD DATA

NONAMETHYLTRISILAZANE reacts with moisture in living tissue to generate ammonia.

Eye Contact: Vapors may cause immediate or delayed severe eye irritation. Liquid will cause severe conjunctivitis and corneal damage

Skin contact: May produce irritation or contact dermatitis which may be delayed several hours. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of vapors or particulates will irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.

Oral Toxicity: not determined

Chronic Toxicity: There are no known chronic effects related to this compound.

### 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. Call a physician.

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

## REACTIVITY DATA

Stability: Stable in sealed containers in a cool place.

Conditions to avoid: Combustible; avoid contact with heat, sparks or open flame.

Incompatibility (materials to avoid): Reacts with water and moisture in air liberating ammonia. Avoid contact with peroxides, oxidizing agents, alcohols, acids.

Hazardous decomposition products: Organic vapors, ammonia.

-2-(SIN6597.9)

## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or NIOSH certified combination organic vapor - amine gas 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 and industrial use only.

Storage and Handling: Store in sealed containers.

## TRANSPORTATION

DOT SHIPPING NAME: CHEMICALS, NOI

DOT HAZARD CLASS: Not Regulated

DOT LABELS: Not Required

DOT ID No: Not Required

Prepared by safety and environmental affairs

MSDS ISSUE DATE SIN6597.9: 1/29/13

SUPERSEDES: 8/8/03

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