

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **TRIS(TRIMETHYLSILYL)ANTIMONY - SIT8721.3**

CHEMICAL NAME: TRIS(TRIMETHYLSILYL)ANTIMONY

SYNONYMS: TRIS(TRIMETHYLSILYL)STIBINE

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: C₉H₂₇SbSi₃

HMIS CODES HEALTH: 4 FLAMMABILITY: 4 REACTIVITY: 2

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
TRIS(TRIMETHYLSILYL)ANTIMONY	7029-27-8	>97	not established	not established
	(ANTIMONY TWA: 0.5mg(Sb)/m ³)			0.5mgSb/m ³)

PHYSICAL DATA

Boiling Point: 88°C @ 2mm

Specific Gravity: 1.1246

Vapor Density (air=1): >1

% volatiles: NA

Molecular Weight: 341.33

Appearance & Color: Straw liquid with disagreeable odor, turns dark on exposure to light or during extended storage, fumes in air and may ignite

Freezing Point: -1 to 6°C

Vapor Pressure, 25°: <0.1mm

Solubility in water: reacts

Evaporation rate: NA

Refractive Index, 20°: 1.5428

FIRE & EXPLOSION DATA

Flash Point, COC : <-18°C (<0°F)

Autoignition Temp.: <75°C

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: **May Ignite Spontaneously on Exposure to Air.** Irritating fumes and vapors may develop when material is exposed to water or open flame.

1-(SIT8721.3)

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: Small quantities can be allowed to burn with appropriate controls. Alternately, the material may be destroyed under an inert atmosphere by mixing with sodium hypochlorite (laundry bleach). Organic layer may be incinerated. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

This material is expected to have health effects similar to antimony, but no studies have been conducted.

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

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 may 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 stored under a dry inert atmosphere.

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

Incompatibility (materials to avoid): Reacts with oxygen, water and moisture in air. Avoid contact with alcohols, acids, oxidizers.

Hazardous decomposition products: Organic acid vapors, antimony, antimony oxides.

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SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or NIOSH approved organic vapor/gas respirator.

Eye and Face Protection: Full face shield with chemical worker's goggles. Do not wear contact lenses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. Fire-resistant laboratory jacket or protective clothing. An eyewash and emergency shower should be available. Launder clothing before reuse.

OTHER PRECAUTIONS

For research use only.

Storage and Handling: Store under dry nitrogen or argon in sealed containers below 20°C.

Product may ignite spontaneously if exposed to air.

TRANSPORTATION

DOT SHIPPING NAME: PYROPHORIC LIQUID, ORGANIC, N.O.S
(TRIS(TRIMETHYLSILYL)ANTIMONY)

DOT HAZARD CLASS: 4.2

DOT LABEL: SPONTANEOUSLY COMBUSTIBLE

DOT ID No: UN2845

PG: I

Air transport forbidden.

Prepared by safety and environmental affairs MSDS ISSUE DATE SIT8721.3: 5/20/14
SUPERSEDES: none

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