

**MATERIAL SAFETY
DATA SHEET**

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NAME ON LABEL: TETRAVINYL TETRAMETHYL CYCLOTETRASILOXANE
CHEMICAL

NAME: 1,3,5,7-TETRAVINYL TETRAMETHYL CYCLOTETRASILOXANE

SYNONYMS: TETRAMETHYL TETRAETHENYL CYCLOTETRASILOXANE

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: C₁₂H₂₄O₄Si₄

HMIS CODES HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

INGREDIENTS

IDENTITY

TETRAVINYL TETRAMETHYL CYCLOTETRASILOXANE

CAS NO.	%	TLV OSHA PEL
2554-06-5	>95	not established

PHYSICAL DATA

Boiling Point: 110°C at 10mm

Melting Point: (-43°C)

Specific Gravity: 0.998

Vapor Pressure, 25°C: < 1mm

Vapor Density (air=1): >1

Solubility in water: insoluble

% volatiles: 100

Evaporation rate (butyl acetate = 1): ~1

Molecular Weight: 344.66

Other: NA

Appearance & Color: Clear liquid, characteristic mild odor

FIRE & EXPLOSION DATA

Flash Point, COC: 112°C (234°F)

Autoignition Temp.: not determined

Flammability Limits: not determined

Extinguishing Media: Water spray or fog, 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.

ENVIRONMENTAL INFORMATION

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

Recommended Disposal: Incinerate. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

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

Skin contact: May produce irritation or contact dermatitis.

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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.: Chemical Abstract Service Registration Number
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Inhalation: Inhalation may irritate the respiratory tract.
Oral Toxicity: not determined
Inhalation: no determined
Eye Irritation: 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. To conscious individual give one full cup of water to dilute ingested material. Get medical attention.

REACTIVITY DATA

Stability: Stable

Conditions to avoid: Store away from oxidizers. Can react violently in the simultaneous presence of hydridosilanes and precious metal compounds.

Hazardous decomposition products: Organic acid vapors and silicon dioxide.

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, NIOSH approved organic vapor 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.

Containers require grounding during use.

TRANSPORTATION

DOT SHIPPING NAME: COMBUSTIBLE LIQUID, NOS

DOT HAZARD CLASS: Not Regulated

DOT LABEL: Not Required

DOT ID No: Not Required

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