

**MATERIAL SAFETY
DATA SHEET**

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NAME USED ON LABEL: TETRAMETHYLSILANE
CHEMICAL NAME: TETRAMETHYLSILANE
SYNONYMS: TMS
CHEMICAL FAMILY: ORGANOSILANE
FORMULA: C₄H₁₂Si
HMIS CODES HEALTH: 1 FLAMMABILITY: 4 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV
TETRAMETHYLSILANE	75-76-3	>99	not determined

PHYSICAL DATA

Boiling Point: 26-7°C	Freezing Point: -99°C
Specific Gravity: 0.641	Vapor Pressure at 20°C: 589mm
Vapor Density (air=1): 3	Solubility in water: insoluble
% volatiles: 100	Evaporation rate (butyl acetate = 1): >1
Molecular Weight: 88.22	Other: N/A

Appearance & Color: Clear to straw liquid with distinct mild odor.

FIRE & EXPLOSION DATA

Flash Point, COC : -27°C (-17°F) Autoignition Temp.: 450°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: Irritating fumes and organic acid vapors

ENVIRONMENTAL INFORMATION

Spill response: May be hazardous to aquatic life if released to open waters. Eliminate sources of ignition. 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

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

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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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eliminate potential dermal effects.

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

Overexposure may produce coughing, headache and nausea.

Inhalation Toxicity: Not determined

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

Incompatibility (materials to avoid): Avoid contact with oxidizers.

Hazardous decomposition products: Organic acid vapors.

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or combination organic vapor/acid 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.

Ground containers during transfer.

TRANSPORTATION

DOT SHIPPING NAME: TETRAMETHYLSILANE

DOT HAZARD CLASS: 3

DOT LABEL: Flammable Liquid

DOT ID No: UN2749 PG: I

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