

**MATERIAL SAFETY
DATA SHEET**

Peace Modern Town C-2408, Dalian, 116023, China
Tel: +86-411-84377919 Fax: +86-411-84511565
Web: www.sibond.com E-mail: info@sibond.com

NAME USED ON LABEL: 1,1,3,3-TETRAMETHYLDISILOXANE
CHEMICAL NAME: 1,1,3,3-TETRAMETHYLDISILOXANE
SYNONYMS: 1,1-DIHYDRO-1,1,3,3-TETRAMETHYLDISILOXANE; M'M'
CHEMICAL FAMILY: ORGANOSILANE
FORMULA: C₄H₁₄OSi₂
HMIS CODES HEALTH: 2 FLAMMABILITY: 4 REACTIVITY: 1

INGREDIENTS

IDENTITY

1,1,3,3-TETRAMETHYLDISILOXANE

CAS NO.	%	TLV OSHA PEL
3277-26-7 / 30110-74-8	>95	not established

PHYSICAL DATA

Boiling Point: 70-1°C	Melting Point: <-20°C
Specific Gravity: 0.757	Vapor Pressure, 27°: 194.8mm
Vapor Density (air = 1): >1	Solubility in water: insoluble
% volatiles: > 95	Evaporation rate (butyl acetate =1): >1
Molecular Weight: 134.33	Viscosity, 20°: 0.5-0.6 cSt
Appearance & Color: Clear liquid	

FIRE & EXPLOSION DATA

Flash Point, COC: -12°C (10°F) Autoignition Temp.: 240°C
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: No information available. Avoid Contact.
Inhalation: No information available. Avoid inhalation.

- 1-

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
Sibond © 2010

Oral Toxicity- mouse, LD50: 3000mg/kg
Inhalation Toxicity- mouse, LC50 (2 h): 400g/m³

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 in sealed containers under dry inert atmosphere. The product can generate small amounts of hydrogen when exposed to alkalis and protic materials such as water and alcohol in combination with metal salts such as aluminum chloride or precious metals such as platinum.

Conditions to avoid: Store away from alkalis, oxidizers, metal salts, precious metals, chlorine, bromine.

Hazardous decomposition products: Hydrogen, formaldehyde, carbon monoxide. 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.

Ground all containers during transfer.

TRANSPORTATION

DOT SHIPPING NAME: FLAMMABLE LIQUID, N.O.S.

(1,1,3,3-TETRAMETHYLDISILOXANE)

DOT HAZARD CLASS: 3

DOT LABEL: Flammable Liquid

DOT ID No: UN1993 **PG:** II

The information contained in this document has been gathered from reference materials and/or Sibond test data and is to the best knowledge and belief of Sibond accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Sibond makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore.

- 2 -

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
Sibond © 2010