

**GELEST, INC.**  
 11 East Steel Rd. Morrisville, PA 19067  
 Phone: (215) 547-1015

MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **TETRAPHENYLSILANE - SIT7755.0**

CHEMICAL NAME: TETRAPHENYLSILANE

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: C<sub>24</sub>H<sub>20</sub>Si

HMIS CODES    HEALTH: 1    FLAMMABILITY: 1    REACTIVITY: 0

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
TETRAPHENYLSILANE	1048-08-4	>95	not determined (OSHA PEL, nuisance dust: 15mg/m <sup>3</sup> )

**PHYSICAL DATA**

Boiling Point: 228° at 3mm

Specific Gravity: 1.078

Vapor Density: N/A

% volatiles: <1

Molecular Weight: 336.51

Appearance & Color: Off-white solid

Melting Point: 236-7°C

Vapor Pressure at 25°C: <0.01mm

Solubility in water: insoluble

Evaporation rate: NA

Other: N/A

**FIRE & EXPLOSION DATA**

Flash Point, COC : >200°C (>392°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 water or open flame.

-1-(SIT7755.0)

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  
 Gelest, Inc. © 2008

## 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, mix with clay or vermiculite and dispose of absorbent material as solid waste. Follow all chemical pollution control regulations.

## HEALTH HAZARD DATA

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

Skin contact: A single relatively short exposure causes no adverse effect. Several or prolonged exposures may cause mild irritation. Avoid Contact.

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.

Conditions to avoid: Store away from oxidizers, strong acids.

Hazardous decomposition products: 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 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.

## TRANSPORTATION

DOT SHIPPING NAME: CHEMICALS, NOI

DOT HAZARD CLASS: Not Regulated

DOT LABEL: Not Required

DOT ID No: Not Required

Prepared by safety and environmental affairs

ISSUE DATE SIT7755.0: 8/29/03

SUPERSEDES: 8/23/98

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. 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. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore.

-3-(SIT7755.0)