

**GELREST, INC.**  
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**MATERIAL SAFETY  
DATA SHEET**

**EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300**

**NAME USED ON LABEL: BIS(TRIMETHOXSILYL)HEXANE - SIB1832.0**  
CHEMICAL NAME: BIS(TRIMETHOXSILYL)HEXANE  
SYNONYMS: 3,3,6,6-TETRAMETHOXY-2,11-DIOXA-3,10-DISILADODECANE  
CHEMICAL FAMILY: ORGANOSILANE  
FORMULA: C<sub>12</sub>H<sub>30</sub>O<sub>6</sub>Si<sub>2</sub>  
HMIS CODES HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV	OSHA PEL
BIS(TRIMETHOXSILYL)HEXANE	87135-01-1	>95	not established (methanol TWA: 10ppm)	

**PHYSICAL DATA**

Boiling Point: 161°C at 2mm  
 Specific Gravity: 1.01  
 Vapor Density (air = 1): >1  
 % volatiles: <10%  
 Molecular Weight: 326.54  
 Appearance & Color: Clear liquid, characteristic odor

Melting Point: <0°C  
 Vapor Pressure, 20°: <0.1mm  
 Solubility in water: reacts  
 Evaporation rate: NA  
 Other: NA

**FIRE & EXPLOSION DATA**

Flash Point, COC: 95°C (203°F) Autoignition Temp.: not determined  
 Flammability Limits: not determined

Extinguishing Media: Water spray or fog, alcohol resistant 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.

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 Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; TLV: Threshold Limit Value; 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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## 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:** Will cause immediate or delayed severe eye irritation. The ability of this material to react and crosslink in the presence of water indicates that contact of the eye by the liquid presents a severe eye hazard potential with the possibility of permanent damage including blindness.

**Skin contact:** May produce irritation or contact dermatitis. Material generates methanol on contact with water or moisture in skin, eyes and mucous membranes and has an irritating, dehydrating effect on overexposed tissue. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

**Inhalation:** Inhalation may irritate the respiratory tract. Overexposure can cause lung damage - pulmonary toxin.

**Note:** The hydrolysis product of bis(trimethoxysilyl)hexane is methanol. Swallowing methanol can cause drowsiness, unconsciousness, blindness and death.

**Oral Toxicity:** not determined

**Inhalation:** not 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 in sealed containers.  
**Conditions to avoid:** Material decomposes slowly in contact with moist air or with water liberating methanol. Avoid contact with oxidizing agents.  
**Hazardous decomposition products:** Methanol, organic acid vapors and silicon dioxide.  
**Hazardous polymerization:** Will not occur.

## 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 use only.

**Storage and Handling:** Store in sealed containers.

## TRANSPORTATION

**DOT SHIPPING NAME:**CHEMICALS NOI  
**DOT HAZARD CLASS:** None required  
**DOT LABEL:** None required  
**DOT ID No:**None required

Prepared by safety and environmental affairs      ISSUE DATE SIB1832.0: 11/14/08  
SUPERSEDES: 5/16/03

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