

# GELEST, INC.

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## MATERIAL SAFETY DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME: **2-(4-CHLOROSULFONYLPHENYL)ETHYLTRICHLOROSILANE, 40% - SIB1811.7**  
CHEMICAL NAME: BIS(TRICHLOROSILYLETHYL)PHENYLSULFONYL CHLORIDE, 40% in toluene  
SYNONYMS:  
CHEMICAL FAMILY: ORGANOSILANE  
FORMULA: C<sub>10</sub>H<sub>11</sub>Cl<sub>7</sub>O<sub>2</sub>SSi<sub>2</sub>  
HMIS CODES HEALTH: 3 FLAMMABILITY: 4 REACTIVITY: 1

## INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
BIS(TRICHLOROSILYLETHYL)PHENYLSULFONYL CHLORIDE, mixed isomers	not found	>35	not established	(ceiling for HCl: 5ppm)
TOLUENE	108-88-3	>55	TWA- 100ppm	TWA- 200ppm
METHYLENE CHLORIDE	75-09-2	<1	TWA- 50ppm	TWA- 500ppm

## PHYSICAL DATA

Boiling Point: 110°C- initial (toluene)	Freezing Point: not determined
Specific Gravity: 1.03	Vapor Pressure at 30°C: ~35mm
Vapor Density (air=1): 3.4 toluene	Solubility in water: insoluble, reacts
% volatiles: >50	Evaporation rate: NA
Molecular Weight: 499.60	Other: NA
Appearance & Color: Straw to amber liquid with acrid odor	

## FIRE & EXPLOSION DATA

Flash Point, COC: 6°C(42°F)      Autoignition Temp.: 535°C (toluene)  
Flammability Limits-(toluene) LEL: 1.27%    UEL: 7%

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 of hydrochloric acid and organic acid vapors may develop when material is exposed to water or open flame.

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## 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: Hydrolyze material by mixing with water in a hood. Aqueous layer contains hydrochloric acid which should be neutralized. Organic layer 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 eliminate potential dermal effects.

Inhalation: Inhalation of vapors or particulates of may irritate the respiratory tract. Overexposure may produce coughing, headache and nausea. Impairment of coordination, distorted perception and CNS disturbances have been reported for toluene intoxication.

Oral Toxicity: Not determined.

Chronic Toxicity: There are no known chronic effects related to this compound.

Toluene is mildly toxic by inhalation and is reported as an experimental teratogen.

### 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): Reacts with water and moisture in air liberating hydrogen chloride. Avoid contact with alcohols, amines, oxidizers.

Hazardous decomposition products: Organic acid vapors, hydrogen chloride.

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## 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 use only.

Storage and Handling: Store in sealed containers.

## TRANSPORTATION

DOT SHIPPING NAME: CHLOROSILANES, FLAMMABLE, CORROSIVE N.O.S.  
(BIS(TRICHLOROSILYLETHYL)PHENYLSULFONYL CHLORIDE, 40% in TOLUENE)  
DOT HAZARD CLASS: 3 SUB: 8  
DOT LABEL: FLAMMABLE LIQUID AND CORROSIVE  
DOT ID No: UN 2985 PG: II

Prepared by safety and environmental affairs MSDS ISSUE DATE SIB1811.7: 7/10/13  
SUPERSEDES: 3/8/13

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