

**MATERIAL SAFETY  
DATA SHEET**

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NAME USED ON LABEL: TRIPHENYLCHLOROSILANE  
CHEMICAL NAME: TRIPHENYLCHLOROSILANE, 95%  
SYNONYMS: CHLOROTRIPHENYLSILANE  
CHEMICAL FAMILY: ORGANOSILANE  
FORMULA: C<sub>18</sub>H<sub>15</sub>ClSi  
HMIS CODES HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
TRIPHENYLCHLOROSILANE (OSHA PEL for hydrogen chloride, TWA: 5ppm)	76-86-8	>90	not determined
TRIPHENYLSILANOL	791-31-1	<10	

**PHYSICAL DATA**

Boiling Point: 189°C at 3mm	Melting Point: 91-2°C
Specific Gravity: 1.16	Vapor Pressure at 25°C: not determined
Vapor Density: NA	Solubility in water: insoluble, reacts
% volatiles: NA	Evaporation rate: NA
Molecular Weight: 294.85	Other: NA
Appearance & Color: Off-white solid with acrid odor of hydrogen chloride	

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

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

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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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## **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.

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

Hazardous decomposition products: Organic acid vapors, hydrogen chloride.

## **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: Chlorosilanes, corrosive, n.o.s.  
(TRIPHENYLCHLOROSILANE)

DOT HAZARD CLASS: 8

DOT LABEL: Corrosive

DOT ID No: UN2987 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

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