

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Tris(Trichlorosilyl)Silane**

FORMULA: HCl_9Si_4

CAS NO: 62257-60-7

SYNONYMS: 1,1,1,3,3,3-Hexachloro-2-(Trichlorosilyl)Trisilane

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Skin corrosion/irritation Category 1B

Serious eye damage/eye irritation Category 1

Pictogram



Signal Word

Danger

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

Hazard Statements

H314 Causes severe skin burns and eye damage

Precautionary Phrases

P260	Do not breathe dust
P280	Wear protective gloves/protective clothing/eye protection/face protection
P264	Wash hands thoroughly after handling
P301 + P330 + P331	If swallowed: rinse mouth. Do NOT induce vomiting
P303 + P361 + P353	IF ON SKIN (OR HAIR): take off immediately all contaminated clothing. rinse skin with water/shower
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse
P405	Store locked up
P501	Dispose of contents/container to licensed waste disposal facility

HMIS Ratings (SCALE 0-4):

Health: 3

Flammability: 2

Reactivity: 1

SPECIAL: WATER REACTIVE

NFPA Rating:

Health: 3

Fire: 2

Reactivity: 1

SPECIAL: WATER REACTIVE

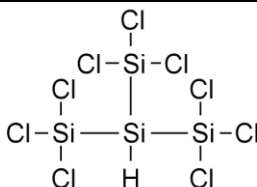
OTHER HAZARDS:

Hydrogen chloride may be formed by reaction with water and moisture in air. The US OSHA PEL (TWA) for hydrogen chloride is 5 ppm.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: HCl_9Si_4

Molecular Weight: 432.43



CHEMICAL NAME	CAS#	%
Tris(trichlorosilyl)silane	62257-60-7	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Remove contacts if easily possible. Get immediate, professional care from qualified physician or emergency care facility.

SKIN EXPOSURE: Wash affected area with copious amounts of water for at least 15 minutes. Remove contaminated clothes and shoes if necessary. Seek medical assistance immediately.

INHALATION: Remove victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. If not breathing administer CPR. If having trouble breathing give oxygen if available. Seek immediate emergency medical assistance.

INGESTION: Do not induce vomiting. Rinse out mouth with water provided person is conscious. Seek immediate medical assistance.

SECTION 5 FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:

Suitable Foam. Carbon dioxide. Dry chemical.
Unsuitable DO NOT USE WATER!

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:

Hydrogen. Hydrogen chloride. Silicon oxychlorides.

ADVICE FOR FIRE FIGHTERS

Do not enter fire area without proper protective equipment, including respiratory protection.
Avoid contact with skin and eyes. Do not breathe dust.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Evacuate personnel to safe area. Wear chemical resistant/ fire-retardant gloves, chemical resistant/flammable resistant suit and boots, and self-contained breathing apparatus if oxygen levels are below 19.5% or unknown. Eliminate all sources of ignition before spill cleanup begins. Cover spill with dry lime, soda ash, or sand. Ventilate area. Place spill residue in a suitable air tight container. Spill residue is water reactive should be placed in tightly sealed metal containers under inert atmosphere for disposal.

ENVIRONMENTAL PRECAUTIONS

Do not allow product enter drains.

METHODS AND MATERIALS

Contain spillage. Dispose of according to all laws and regulations.

SECTION 7 HANDLING AND STORAGE

PERSONNEL PRECAUTIONS

CORROSIVE MOISTURE AND WATER REACTIVE AIR SENSITIVE

Keep in a tightly sealed container (corrosion resistant) under inert atmosphere. Store in a cool, dry, well-ventilated area. Keep away from water, moisture/humidity in atmosphere, alcohols, oxidizers agent, amines.

Causes severe burns. Do not breathe vapor/fumes. Do not in eyes, on skin, on clothing, shoes.

Use with adequate ventilation. Avoid prolonged or repeated exposure. Handle and use in a controlled environment under inert atmosphere. Violent reaction may occur if exposed to moisture in air, water.

CONDITIONS FOR SAFE STORAGE

Store in a well-ventilated place. Store away from heat. Keep container tightly sealed.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Approved safety glasses w/side shields, or safety goggles and face shield

SKIN PROTECTION: Wear appropriate chemical resistant gloves, rubber, neoprene

VENTILATION: Chemical fume hood. Handle and use under inert atmosphere.

RESPIRATOR: If adequate ventilation if not available, a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29CFR 1910.34 or NIOSH/MSHA or European Standard EN 149 approved respirator.

ADDITIONAL PROTECTION: DANGER! CORROSIVE Causes Burns. Water/Moisture reactive. Avoid contact with skin, eyes, clothing, shoes. Do not inhale vapors. Use with adequate ventilation. Use in a controlled environment. Avoid contact with WATER, MOISTURE, Oxidizing agents, Alcohols, and Amines. Use adequate protection to avoid contact with skin, clothing, shoes. (Apron, lab coat, arm sleevelets). Eyewash and safety shower in area capable of sustained flushing. Do not eat, drink or smoke in area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid or Liquid
COLOR: White or colorless
MELTING POINT: 30 - 31 °C
BOILING POINT: 60 - 62 °C @ 0.2 mm Hg
DECOMPOSITION: No data available
FLASH POINT: > 65 °C
VAPOR PRESSURE: 1 torr @ 75 °C
SOLUBILITY IN WATER: Reacts with water
DENSITY: 1.539 g/mL
ODOR: Acrid odor of hydrogen chloride
ODOR THRESHOLD: No data available
EVAPORATION RATE: No data available

SECTION 10 STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Extreme temperatures, heat, flames, and sparks.
INCOMPATIBILITY: Alcohols. Amines. Oxidizing agent.
DECOMPOSITION PRODUCTS: Hydrogen. Hydrogen chloride. Silicon oxychlorides.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY

No data available

CARCINOGENICITY

No data available

REPRODUCTIVE TOXICITY

No data available

POTENTIAL HEALTH EFFECTS

SKIN: Causes severe skin burns.
EYES: Causes severe eye damage.
INHALATION: May cause irritation to the respiratory tract.
INGESTION: Harmful if swallowed.

SECTION 12 ECOLOGICAL DATA

May be hazardous to aquatic life. Do not allow product to reach ground water, water course or sewage system. Do not allow product to be released to the environment without proper governmental permits

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of all product and materials according to the state, local, or national regulations.

SECTION 14 TRANSPORTATION DATA

Chlorosilanes, n.o.s. (Tris(Trichlorosilyl)Silane)

Class 8

UN2987

PG II

DOT, IATA, and IMDG Regulated

Marine Pollutant: NO

SECTION 15 REGULATORY INFORMATION

OSHA HAZARDS: Corrosive

SARA 311/312 HAZARDS: No data available

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: No data available

NEW JERSEY RIGHT TO KNOW COMPONENTS: No data available

CALIFORNIA PROP. 65 COMPONENTS: No data available

SECTION 16 OTHER INFORMATION

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SDS DEPT