

1 - Product and Company Information

ProductName (2-CHLOROETHYL)TRICHLOROSILANE

2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Causes burns.

3 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I
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(2-CHLOROETHYL)TRICHLOROSILANE	6233-20-1	228-345-4	None
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Formula	C ₂ H ₄ Cl ₄ Si
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Molecular Weight	198 AMU
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4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER EYE CONTACT

Assure adequate flushing of the eyes by separating the eyelids with fingers.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

SPECIAL RISKS

Specific Hazard(s): Flammable liquid. Emits toxic fumes under fire conditions. Vapor may travel considerable distance to source of ignition and flash back.

Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut off all sources of ignition.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat, sparks, and open flame. Store in a cool dry place.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood. Use nonsparking tools.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before reuse. Discard contaminated shoes.

PERSONAL PROTECTIVE EQUIPMENT

Special Protective Measures: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Faceshield (8-inch minimum).

9 - Physical and Chemical Properties

Appearance	Color: Colorless
	Form: Clear liquid

Property	Value	At Temperature or Pressure
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pH	N/A	
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BP/BP Range	N/A	
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MP/MP Range	N/A	
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Flash Point	33 °C	Method: closed cup
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Flammability	N/A	
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Autoignition Temp	N/A	
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Oxidizing Properties	N/A	
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Explosive Properties	N/A	
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Explosion Limits	N/A	
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Vapor Pressure	N/A	
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SG/Density	1.419 g/cm ³	
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Partition Coefficient	N/A	
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Viscosity	N/A	
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Vapor Density	N/A	
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Saturated Vapor Conc.	N/A	
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Evaporation Rate	N/A	
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Bulk Density	N/A	
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Decomposition Temp.	N/A	
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Solvent Content	N/A	
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Water Content	N/A	
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Surface Tension	N/A	
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Conductivity	N/A	
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Miscellaneous Data	N/A	
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Solubility	N/A	
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10 - Stability and Reactivity

STABILITY

Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Hydrogen chloride gas, Silicon oxide.

11 - Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

ROUTE OF EXPOSURE

Multiple Routes: May be harmful by inhalation, ingestion, or skin absorption.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR

UN#: 2986

Class: 8

PG: II

Subrisk: 3

Proper Shipping Name: Chlorosilanes, corrosive,

Flammable, n.o.s.

IMDG

UN#: 2986

Class: 8

PG: II

Subrisk: 3

Proper Shipping Name: CHLOROSILANES, CORROSIVE,

FLAMMABLE, n.o.s.

Marine Pollutant: No

Severe Marine Pollutant: No

Technical Name: Required

IATA

UN#: 2986

Class: 8

PG: II

Subrisk: 3

Proper Shipping Name: Chlorosilanes, corrosive,

Flammable, n.o.s.

Inhalation Packing Group: I

Technical Name: Required

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

R-PHRASES: 34

S-PHRASES: 16-36/37/39-45

Keept away from sources of ignition - no smoking. In case of fire, contact with eyes, rinse immediately - with plenty of water and seek medical advice.

Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

COUNTRY-SPECIFIC INFORMATION

Germany

WGK: 3

Self-Classification

Other Information

www.lookchem.com

For R&D use only. Not for drug, household or other uses.

WARRANTY:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The product in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent

any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing

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