

**Material Safety Data Sheet**

Version 3.0  
Revision Date 01/01/2009  
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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Chloro(dimethyl)thexylsilane

Product Number : 302449  
Brand : Aldrich

Company : Sigma-Aldrich Canada, Ltd  
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OAKVILLE ON L6H 6J8  
CANADA

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : TDSCI  
Dimethyl-(2,3-dimethyl-2-butyl)chlorosilane  
Dimethyl-thexylchlorosilane  
Thexyldimethylsilyl chloride  
Chlorodimethyl(1,1,2-trimethylpropyl)silane  
Dimethylthexylsilyl chloride

Formula :  $C_8H_{19}ClSi$   
Molecular Weight : 178.77 g/mol

| CAS-No.                             | EC-No. | Index-No. | Concentration |
|-------------------------------------|--------|-----------|---------------|
| <b>Dimethylthexylsilyl chloride</b> |        |           |               |
| 67373-56-2                          | -      | -         | -             |

**3. HAZARDS IDENTIFICATION****WHMIS Classification**

B3 Combustible Liquid  
D2B  
E

Combustible Liquid  
Moderate respiratory irritant  
Corrosive

**HMIS Classification**

Health Hazard: 3  
Flammability: 2  
Physical hazards: 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Skin** May be harmful if absorbed through skin. Causes skin burns.

**Eyes**  
**Ingestion**

Causes eye burns.  
May be harmful if swallowed. Causes burns.

#### 4. FIRST AID MEASURES

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

**In case of skin contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. FIRE-FIGHTING MEASURES

**Flammable properties**

Flash point 46 °C (115 °F) - closed cup

Ignition temperature no data available

**Suitable extinguishing media**

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 protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Further information**

Use water spray to cool unopened containers.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**Environmental precautions**

Do not let product enter drains.

**Methods for cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

**Handling**

Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

Store under inert gas. Moisture sensitive.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves.

**Eye protection**

Safety glasses

**Skin and body protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form clear, liquid

Colour colourless

**Safety data**

pH no data available

Melting point no data available

Boiling point 55 - 56 °C (131 - 133 °F) at 13 hPa (10 mmHg)

Flash point 46 °C (115 °F) - closed cup

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Density 0.909 g/mL at 25 °C (77 °F)

Water solubility no data available

**10. STABILITY AND REACTIVITY****Storage stability**

Stable under recommended storage conditions.

**Conditions to avoid**

Heat, flames and sparks.

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas, silicon oxides

**Hazardous reactions**

Vapours may form explosive mixture with air.

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**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

no data available

**Irritation and corrosion**

no data available

**Sensitisation**

no data available

**Chronic exposure**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Signs and Symptoms of Exposure**

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

**Potential Health Effects**

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. |
| <b>Skin</b>       | May be harmful if absorbed through skin. Causes skin burns.   |
| <b>Eyes</b>       | Causes eye burns.   |
| <b>Ingestion</b>  | May be harmful if swallowed. Causes burns.  |

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**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

no data available

**Ecotoxicity effects**

no data available

**Further information on ecology**

no data available

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**13. DISPOSAL CONSIDERATIONS**

**Product**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION****DOT (US)**

UN-Number: 2986 Class: 8 (3) Packing group: II  
Proper shipping name: Chlorosilanes, corrosive, flammable, n.o.s.  
Marine pollutant: No  
Poison Inhalation Hazard: No

**IMDG**

UN-Number: 2986 Class: 8 (3) Packing group: II EMS-No: F-E, S-C  
Proper shipping name: CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S.  
Marine pollutant: No

**IATA**

UN-Number: 2986 Class: 8 (3) Packing group: II  
Proper shipping name: Chlorosilanes, corrosive, flammable n.o.s.

**15. REGULATORY INFORMATION****DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Dimethylhexylsilyl chloride

CAS-No.  
67373-56-2

**WHMIS Classification**

B3 Combustible Liquid  
D2B  
E

Combustible Liquid  
Moderate respiratory irritant  
Corrosive

**16. OTHER INFORMATION****Further information**

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