MATERIAL SAFETY DATA SHEET
DIMETHYL DICHLOROSILANE PURE

Section 1 - Chemical Product and Company Identification

MSDS Name: Dimethyl Dichlorosilane pure
Catalog Numbers: 0427185
Synonyms: Dimethyldichlorosilane; Dichlorodimethylsilane DMDCS

Company Identification: SISCO RESEARCH LABORATORIES PVT. LTD.
2-F, Satam Industrial Estate, ‘C’ Wing, 2nd Floor,
Dr. Cardinal Gracious Road, Chakala,
Andheri (East), Mumbai – 400 099.
Tel: 2687 2601/2687 8163/2687 8243
Fax: 2687 8241
Email: info@srlchem.com, export@srlchem.com
Website: www.srlchem.com

Section 2 - Composition, Information on Ingredients

CAS# Chemical Name: % EINECS#
75-78-5 Dimethyldichlorosilane 99+% 200-901-0

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Highly flammable. Irritating to eyes, respiratory system and skin.

Potential Health Effects
Eye: Causes severe eye irritation. Lachrymator (substance which increases the flow of tears).
Skin: Causes skin burns. May be harmful if absorbed through the skin.
Ingestion: May cause irritation of the digestive tract.
Inhalation: Harmful if inhaled. Causes chemical burns to the respiratory tract.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion: Get medical aid. Wash mouth out with water.
**Inhalation:**
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:**
Treat symptomatically and supportively.

---

**Section 5 - Fire Fighting Measures**

**General Information:**
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Water Reactive. Material will react with water and may release a flammable and/or toxic gas. Flammable liquid and vapor.

**Extinguishing Media:**
Use carbon dioxide or dry chemical. DO NOT USE WATER!

---

**Section 6 - Accidental Release Measures**

**General Information:**
Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**
Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Remove all sources of ignition. Use a spark-proof tool. Do not expose spill to water. Do not let this chemical enter the environment.

---

**Section 7 - Handling and Storage**

**Handling:**
Do not allow water to get into the container because of violent reaction. Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Handle under an inert atmosphere. Do not allow contact with water. Use only in a chemical fume hood.

**Storage:**

---

**Section 8 - Exposure Controls, Personal Protection**

**Engineering Controls:**
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

**Exposure Limits**
**Personal Protective Equipment**

**Eyes:**
Wear chemical splash goggles.

**Skin:**
Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**
Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

---

### Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point:</td>
<td>70 deg C @760mmHg (158.00°F)</td>
</tr>
<tr>
<td>Specific Gravity/Density:</td>
<td>1.071-1.073</td>
</tr>
<tr>
<td>Molecular Formula:</td>
<td>C$_2$H$_6$Cl$_2$Si</td>
</tr>
<tr>
<td>Molecular Weight:</td>
<td>129.06</td>
</tr>
</tbody>
</table>

---

### Section 10 - Stability and Reactivity

**Chemical Stability:**
Moisture sensitive.

**Conditions to Avoid:**
Incompatible materials, ignition sources, exposure to moist air or water.

**Incompatibilities with Other Materials**
Strong oxidizing agents, acids, strong bases, alcohols, amines, esters (e.g. butyl acetate, ethyl acetate, propyl formate), acetone, aldehydes, ketones.

**Hazardous Decomposition Products**
Hydrogen chloride, carbon monoxide, carbon dioxide, oxides of silicon.

**Hazardous Polymerization**
Has not been reported.

---

### Section 11 - Toxicological Information

**RTECS#:**
CAS# 75-78-5: VV3150000

**LD50/LC50:**
RTECS:

**CAS# 75-78-5:**
Draize test, rabbit, eye: 5 mg/24H Severe;
Draize test, rabbit, skin: 20 mg/24H Moderate;
Inhalation, mouse: LC50 = 300 mg/m3/2H;
Inhalation, rat: LC50 = 930 ppm/4H;
Oral, rat: LD50 = 5660 uL/kg;

**Carcinogenicity:**
Dichlorodimethylsilane - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:**
See actual entry in RTECS for complete information.
Section 12 - Ecological Information

Other: Do not empty into drains.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>Shipping Name:</th>
<th>IATA</th>
<th>IMO</th>
<th>RID/ADR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl dichlorosilane</td>
<td>Dimethyl dichlorosilane</td>
<td>Dimethyl dichlorosilane</td>
<td></td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>3 (8)</td>
<td>3 (8)</td>
<td>3 (8)</td>
</tr>
<tr>
<td>UN Number:</td>
<td>1162</td>
<td>1162</td>
<td>1162</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
</tbody>
</table>

Section 15 - Regulatory Information

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XI F
Risk Phrases:
R 11 Highly flammable.
R 36/37/38 Irritating to eyes, respiratory system and skin.
Safety Phrases:
WGK (Water Danger/Protection)
CAS# 75-78-5: Not available
Canada
CAS# 75-78-5 is listed on Canada's DSL List
US Federal
TSCA
CAS# 75-78-5 is listed on the TSCA Inventory.

Section 16 - Additional Information

SISCO RESEARCH LABORATORIES provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.