

# METHYL TRICHLORO SILANE CAS No 75-79-6

# MATERIAL SAFETY DATA SHEET SDS/MSDS

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers Product name	:	Methyl Trichloro Silane
	CAS-No.	:	75-79-6
1.2	2 Relevant identified uses of the substance or mixture and uses advised against		e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	Details of the supplier of the safety data sheet		
	Company	:	Central Drug House (P) Ltd 7/28 Vardaan House New Delhi -110002 INDIA
	Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com.
	<b>F</b>		

### 1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 2), H225 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 4), H312 Skin corrosion (Category 1A), H314

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 Label elements

# Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s) H225 H302 + H312

Highly flammable liquid and vapour. Harmful if swallowed or in contact with skin

H314 H331	Causes severe skin burns and eye damage. Toxic if inhaled.
Precautionary statement(s)	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
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.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Supplemental Hazard information	tion (EU)
FUH014	Reacts violently with water

EUH014	Reacts violently with water.
EUH071	Corrosive to the respiratory tract.

## 2.3 Other hazards

3.1

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Reacts violently with water., Corrosive to the respiratory tract.

## **SECTION 3: Composition/information on ingredients**

Substances Synonyms		Trichloro(methyl)silane
Cynonymo	•	
Formula	:	CH <sub>3</sub> Cl <sub>3</sub> Si
Molecular weight	:	149.48 g/mol
CAS-No.	:	75-79-6
EC-No.	:	200-902-6
Index-No.	:	014-004-00-5

Component		Classification	Concentration
Methyltrichlorosilane	9		
CAS-No. EC-No. Index-No.	75-79-6 200-902-6 014-004-00-5	Flam. Liq. 2; Acute Tox. 4; Acute Tox. 3; Acute Tox. 4; 1A; H225, H302, H331, H312, H314 Concentration limits: >= 1 %: Skin Irrit. 2, H315; >= 1 %: Eye Irrit. 2, H319; >= 1 %: STOT SE 3, H335;	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### 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. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

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.

- **4.2** Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- **4.3 Indication of any immediate medical attention and special treatment needed** No data available

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media Dry powder

**5.2** Special hazards arising from the substance or mixture Carbon oxides, Hydrogen chloride gas, silicon oxides

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information No data available

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, 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. For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

- 6.3 Methods and materials for containment and cleaning up Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water.
- 6.4 Reference to other sections For disposal see section 13.

#### **SECTION 7: Handling and storage**

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

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

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. 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. Never allow product to get in contact with water during storage.

Handle and store under inert gas. Storage class (TRGS 510): Flammable liquids

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## Personal protective equipment

## **Eye/face protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engine 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).

## Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/freezing point: -77.79 °C
f)	Initial boiling point and boiling range	66 °C - lit.
g)	Flash point	8 °C - closed cup

h)	Evaporation rate	No data available	
i)	Flammability (solid, gas)	No data available	
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 43 %(V) Lower explosion limit: 4.5 %(V)	
k)	Vapour pressure	201.6 hPa at 20 °C	
I)	Vapour density	5.16 - (Air = 1.0)	
m)	Relative density	1.273 g/cm3 at 25 °C	
n)	Water solubility	No data available	
o)	Partition coefficient: n- octanol/water	No data available	
p)	Auto-ignition temperature	408 °C at 1013.0 hPa	
q)	Decomposition temperature	No data available	
r)	Viscosity	No data available	
s)	Explosive properties	No data available	
t)	Oxidizing properties	No data available	
Other safety information			

Relative vapour density 5.16 - (Air = 1.0)

## SECTION 10: Stability and reactivity

10.1 Reactivity No data available

9.2

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** Reacts violently with water.
- **10.4 Conditions to avoid** Heat, flames and sparks. Exposure to moisture

## **10.5** Incompatible materials Strong acids, Strong bases, Strong oxidizing agents, Reacts violently with water.

Hazardous decomposition products
 Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas, silicon oxides
 Other decomposition products - No data available
 In the event of fire: see section 5

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

### Acute toxicity

LD50 Oral - Rat - male and female - < 1,280 mg/kg(Methyltrichlorosilane) (OECD Test Guideline 401) LC50 Inhalation - Rat - male and female - 4 h - 4.17 mg/l(Methyltrichlorosilane) (OECD Test Guideline 403) LD50 Dermal - Rabbit - 1,067 mg/kg(Methyltrichlorosilane) Remarks: Behavioral:Altered sleep time (including change in righting reflex). Liver:Other changes. Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

### Skin corrosion/irritation

Skin - Rabbit(Methyltrichlorosilane) Result: Causes severe burns. - 4 h (OECD Test Guideline 404)

## Serious eye damage/eye irritation

Eyes - Rabbit(Methyltrichlorosilane) Result: Corrosive (OECD Test Guideline 405)

# Respiratory or skin sensitisation

No data available(Methyltrichlorosilane)

#### Germ cell mutagenicity

Ames test(Methyltrichlorosilane) Salmonella typhimurium Result: negative OECD Test Guideline 474(Methyltrichlorosilane) Rat - male Result: negative

### Carcinogenicity

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.

### **Reproductive toxicity**

No data available(Methyltrichlorosilane)

#### **Specific target organ toxicity - single exposure** No data available(Methyltrichlorosilane)

Specific target organ toxicity - repeated exposure No data available

### Aspiration hazard No data available(Methyltrichlorosilane)

### **Additional Information**

RTECS: VV4550000

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

### **SECTION 12: Ecological information**

### 12.1 Toxicity

No data available

- **12.2 Persistence and degradability** No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available(Methyltrichlorosilane)
- **12.5** Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

No data available

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### **Contaminated packaging**

Dispose of as unused product.

## **SECTION 14: Transport information**

14.1	UN number ADR/RID: 1250	IMDG: 1250	IATA: 1250
14.2	2 UN proper shipping name ADR/RID: METHYLTRICHLOROSILANE IMDG: METHYLTRICHLOROSILANE IATA: METHYLTRICHLOROSILANE Passenger Aircraft: Not permitted for transport		
14.3	Transport hazard class(es) ADR/RID: 3 (8)	IMDG: 3 (8)	IATA: 3 (8)
14.4	<b>Packaging group</b> ADR/RID: II	IMDG: II	IATA: II
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6	Special precautions for user No data available		

## **SECTION 15: Regulatory information**

**15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

## **SECTION 16: Other information**

#### Full text of H-Statements referred to under sections 2 and 3.

EUH014	Reacts violently with water.
EUH071	Corrosive to the respiratory tract.
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H302 + H312	Harmful if swallowed or in contact with skin
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.

## **Further information**

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 information 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. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.