

# Wuhan University Silicone New Material Co., Ltd.



湖北武大有机硅新材料股份有限公司  
Maple Garden  
Wuhan University  
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中国·湖北·武汉大学枫园

Tel: +86 - (0)27 87215023  
Fax: +86 - (0)27 87214371  
www.wdsilicone.cn

**WD-22**

MSDS

## **1 Identification of substance:**

### **Product details:**

**Product name:** Methylvinylchlorosilane

**Company name:** WUHAN UNIVERSITY SILICONE NEW MATERIAL CO., LTD.

**Telephone:** +86-27-87215023    **Fax:** +86-27-87214371

## **2 Composition/Data on components:**

Methylvinylchlorosilane (CAS# 124-70-9); Min. 98%

**EINECS Number:** 204-710-3

## **3 Hazards identification**

### **Hazard description:**

C Corrosive

F Highly flammable

### **Information pertaining to particular dangers for man and environment**

R 11 Highly flammable.

R 14 Reacts violently with water.

R 34 Causes burns.

### **Classification system**

#### **HMIS ratings (scale 0-4)**

#### **(Hazardous Materials Identification System)**

Health (acute effects) = 3

Flammability = 2

Reactivity = 2

## **4 First aid measures**

### **General information**

Immediately remove any clothing soiled by the product.

### **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

### **After skin contact**

Immediately wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

### **After eye contact**

Rinse opened eye for several minutes under running water. Then consult a doctor.

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**After swallowing** Seek immediate medical advice.

## **5 Fire fighting measures**

### **Suitable extinguishing agents**

In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

**For safety reasons unsuitable extinguishing agents** Water

**Special hazards caused by the material, its products of combustion or resulting gases:**

Reacts violently with water

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Hydrogen chloride (HCl)

Silicon oxide

### **Protective equipment:**

Wear self-contained respirator.

Wear fully protective impervious suit.

## **6 Accidental release measures**

### **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

### **Measures for environmental protection:**

Do not allow material to be released to the environment without proper governmental permits.

### **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Keep away from ignition sources.

### **Additional information:**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## **7 Handling and storage**

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### Handling

#### Information for safe handling:

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.

#### Information about protection against explosions and fires:

Keep ignition sources away.

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

### Storage

#### Requirements to be met by storerooms and receptacles:

Store in a cool location.

#### Information about storage in one common storage facility:

Store away from water/moisture.

Store away from alcohols

Do not store together with oxidizing and acidic materials.

Do not store together with alkalies (caustic solutions).

#### Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Store under lock and key and with access restricted to technical experts or their assistants only.

## 8 Exposure controls and personal protection

#### Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

#### Components with limit values that require monitoring at the workplace:

Not required.

**Additional information:** No data

#### Personal protective equipment

##### General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

#### Breathing equipment:

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Use suitable respirator when high concentrations are present.

**Protection of hands:** Impervious gloves

**Eye protection:**

Tightly sealed goggles

Full face protection

**Body protection:** Protective work clothing.

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

#### **General Information**

**Form:** Clear liquid

**Color:** Colorless

**Melting point/Melting range:** Not determined

**Boiling point/Boiling range:** 92 ° C

**Sublimation temperature / start:** Not determined

**Flash point:** 4 ° C

**Ignition temperature:** 320 ° C

**Decomposition temperature:** Not determined

**Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures is possible.

**Explosion limits:**

**Lower:** Not determined

**Upper:** Not determined

**Vapor pressure:** Not determined

**Density:** at 20 ° C 1.08 g/cm<sup>3</sup>

**Solubility in / Miscibility with**

**Water:** Reacts violently

### **10 Stability and reactivity**

**Thermal decomposition / conditions to be avoided:**

Decomposition will not occur if used and stored according to specifications.

**Materials to be avoided:**

Water/moisture

Alcohols

Acids

Oxidizing agents

Bases

**Dangerous reactions** Reacts violently with water

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### Dangerous products of decomposition:

Carbon monoxide and carbon dioxide  
Hydrogen chloride (HCl)  
Silicon oxide

## 11 Toxicological information

### Acute toxicity:

#### Primary irritant effect:

##### on the skin:

Corrosive effect on skin and mucous membranes.  
Irritant to skin and mucous membranes.

##### on the eye:

Strong corrosive effect.  
Irritating effect.

**Sensitization:** No sensitizing effects known.

### Subacute to chronic toxicity:

Corrosive materials are acutely destructive to the respiratory tract, eyes, skin and digestive tract. Eye contact may result in permanent damage and complete vision loss. Inhalation may result in respiratory effects such as inflammation, edema, and chemical pneumonitis. May cause coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. Ingestion may cause damage to the mouth, throat and esophagus. May cause skin burns or irritation depending on the severity of the exposure.

### Additional toxicological information:

Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

## 12 Ecological information:

### General notes:

Do not allow material to be released to the environment without proper governmental permits.

## 13 Disposal considerations

### Product:

### Recommendation

Consult state, local or national regulations to ensure proper disposal.

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**Uncleaned packagings:**

**Recommendation:**

Disposal must be made according to official regulations.

### 14 Transport information

**DOT regulations:**

**Hazard class:** 3/8

**Identification number:** UN2985

**Packing group:** II

**Proper shipping name (technical name):**

Corrosive liquid, water-reactive, n.o.s. (Vinylmethyldichlorosilane)

**Land transport ADR/RID (cross-border)**

**ADR/RID class:** 3 Corrosive substances, 8 flammable substances

**UN-Number:** 2985

**Description of goods:** Corrosive liquid, water-reactive, n.o.s.

(Vinylmethyldichlorosilane)

**Maritime transport IMDG:**

**IMDG Class:** 3/8

**UN Number:** 2985

**Packaging group:** II

**Proper shipping name:** Corrosive liquid, water-reactive, n.o.s.

(Vinylmethyldichlorosilane)

**Air transport ICAO-TI and IATA-DGR:**

**ICAO/IATA Class:** 3/8

**UN/ID Number:** 2985

**Packaging group:** II

**Proper shipping name:** Corrosive liquid, water-reactive, n.o.s.

(Vinylmethyldichlorosilane)

### 15 Regulations

**Product related hazard informations:**

**Hazard symbols:**

C Corrosive F Highly flammable

**Risk phrases:**

11 Highly flammable.

14 Reacts violently with water.

34 Causes burns.

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## Safety phrases:

- 8 Keep container dry.
- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 20 When using do not eat or drink.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 30 Never add water to this product.
- 33 Take precautionary measures against static discharges.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
- 45 In case of accident or if you feel unwell, seek medical advice immediately.
- 60 This material and its container must be disposed of as hazardous waste.

## National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

## Information about limitation of use:

For use only by technically qualified individuals.