



## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

Trichlorovinylsilane

CAS NO.: 75-94-5

Manufacturer: Shandong Wanda Organosilicon New Materials Co.,Ltd.

Xizhou, Qufu, Shandong., China

For more information call (Monday-Friday, 8:30am-5:30pm): 86-021-54177116

In case of emergency call (24 Hours/Day, 7 Days/Week): 86-0537-4631478

### 2. COMPOSITION, INFORMATION ON INGREDIENTS:

CAS#	Chemical Name	%	EINECS#	Haz Symbols	Risk Phrases
75-94-5	Trichlorovinylsilane	98%	200-917-8	-	-

### 3. HAZARDS IDENTIFICATION:

#### Potential Health Effects

**Eye:** Causes severe eye irritation and burns. May cause chemical conjunctivitis and corneal damage.

**Skin:** Contact with liquid is corrosive and causes severe burns and ulceration. May cause skin discoloration.

May be harmful if absorbed through the skin. Substance is readily absorbed through the skin. May cause cyanosis of the extremities. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.

**Ingestion:** May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns.

May cause perforation of the digestive tract. May cause nausea and vomiting. May be harmful if swallowed.

Ingestion of large amounts may cause CNS depression.

**Inhalation:** Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Aspiration may lead to pulmonary edema. Vapors may cause dizziness or suffocation. May cause burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Harmful if inhaled.

**Hazards:** Flashback along vapor trail may occur. Difficult to extinguish. Reignition may occur.

### 4. FIRST AID MEASURES:

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Do NOT allow victim to rub or keep eyes closed. Extensive

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irrigation is required (at least 30 minutes).

**Skin:** Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

**Ingestion:** Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:** Get medical aid immediately. Remove from exposure to fresh air immediately. Do not use mouth-to-mouth respiration if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

## 5. FIRE FIGHTING MEASURES:

**Fire Fighting:** Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Will burn if involved in a fire. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Contact with metals may evolve flammable hydrogen gas. Water hydrolyzes material liberating acidic gas which in contact with metal surfaces can generate flammable and/or explosive hydrogen gas. Runoff from fire control or dilution water may cause pollution. Extinguishing media: Use water spray to cool fire-exposed containers. DO NOT USE WATER! Do NOT get water inside containers.

**Fire Potential:** A very dangerous fire hazard when exposed to heat or flame. Self-ignites in air. With a little ammonia, it forms a self-igniting product. Chlorosilanes certain strong corrosives may, on contact with organic matter or other chemicals, cause fire.

**Flash Point:** 10

**Autoignition Temperature:** 270 deg C

**Explosion Limits, Lower:** 3

**Upper:** Not available. 3

## 6. ACCIDENTAL RELEASE MEASURES:

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

**Spills/Leaks:** Clean up spills immediately, using the appropriate protective equipment. Cover with sand, dry lime or soda ash and place in a closed container for disposal. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. Do not get water on spilled substances or inside containers.

## 7. HANDLING AND STORAGE:

**Handling:** Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with heat, sparks and flame. Do not get on skin or in eyes. Do not ingest or inhale. Use with adequate ventilation. Use and store under nitrogen. Use only in a chemical fume hood.

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Discard contaminated shoes. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

**Storage:** Keep away from heat, sparks, and flame. Keep away from sources of ignition. Keep container closed when not in use. Refrigerator/flammables.

## **8. EXPOSURE CONTROLS, PERSONAL PROTECTION:**

### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate protective gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Exposure Effects:** Effects may be delayed.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

## **9. PHYSICAL AND CHEMICAL PROPERTIES:**

**Physical State:** Liquid

**Appearance:** A colorless to pale yellow fuming liquid with a pungent odor.

**pH:** Not available.

**Vapor Density:** 5.61

**Boiling Point:** 90 deg C

**Freezing/Melting Point:** Not available.

**Decomposition Temperature:** Not available.

**Solubility:** Acts

**Specific Gravity/Density:** 1.2426

**Molecular Formula:** C<sub>2</sub>H<sub>3</sub>Cl<sub>3</sub>Si

**Molecular Weight:** 161.49

## **10. STABILITY AND REACTIVITY:**

**Chemical Stability:** Reacts violently with water. Unstable if heated. Evolves hydrogen gas on contact with metals.

**Incompatibilities with Other Materials:** Metals, strong oxidizing agents, strong acids, strong bases, water.

**Hazardous Decomposition Products:** Hydrogen chloride, carbon monoxide, carbon dioxide, hydrogen gas, silicon oxide, phosgene gas, chloride fumes.

**Combustion Products:** Toxic chlorine gas may be formed in fires.

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**11. TOXICOLOGICAL INFORMATION:**

Not listed

**12. ECOLOGICAL INFORMATION:**

**Ecotoxicity:** No data available. No information available.

**Environmental:** No information available.

**Physical:** No information available.

**Other:** Do not empty into drains.

**13. DISPOSAL CONSIDERATIONS:**

Not listed

**14. TRANSPORT INFORMATION:**

<b>Hazard Class:</b>	3
<b>UN Number:</b>	UN1305
<b>Packing Group:</b>	I

**15. REGULATORY INFORMATION:**

NOT LISTED

**16. ADDITIONAL INFORMATION:**

MSDS Issue Date: 05/08/2010      Revision #0 Date: Original.

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