



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

Vinyltriethoxysilane

CAS NO.: 78-08-0

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
78-08-0	Vinyltriethoxysilane	98%	201-081-7	-	10

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW

Flammable.Moisture sensitive.

Potential Health Effects

Eye: Causes mild eye irritation. May cause chemical conjunctivitis and corneal damage.

Skin: Causes mild skin irritation. May cause cyanosis of the extremities.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Ingestion of large amounts may cause CNS depression.

Inhalation: Causes respiratory tract irritation. Vapors may cause dizziness or suffocation. Can produce delayed pulmonary edema. May cause burning sensation in the chest.

Chronic: Prolonged or repeated skin contact may cause dermatitis. Effects may be delayed.

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.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse..

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Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

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.

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 may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. 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. Flammable liquid and vapor.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Use agent most appropriate to extinguish fire. Do NOT use straight streams of water.

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. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

7. HANDLING AND STORAGE:

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. 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. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

Personal Protective Equipment:

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and faceprotection regulations in 29 CFR 1910.133 or European Standard EN166.

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Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

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 respirator use.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Liquid

Color: colorless

Odor: None reported.

pH: Not available.

Vapor Pressure: 24 hPa @ 61 deg C

Viscosity: Not available.

Boiling Point: 160 - 161 deg C @ 760.00 mmHg

Freezing/Melting Point: Not available.

Autoignition Temperature: Not applicable.

Flash Point: 34 deg C (93.20 deg F)

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water: decomposes

Specific Gravity/Density: 0.9030 g/cm³

Molecular Formula: C₈H₁₈O₃Si

Molecular Weight: 190.32

10. STABILITY AND REACTIVITY:

Chemical Stability: Stable under normal temperatures and pressures. Moisture sensitive.

Incompatibilities with Other Materials: Strong oxidizing agents, strong acids.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, silicon dioxide.

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

11. TOXICOLOGICAL INFORMATION:

RTECS#:

CAS# 78-08-0: VV6700000

LD50/LC50:

CAS# 78-08-0: Draize test, rabbit, eye: 500 mg/24H Mild; Oral, rat:

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LD50 = 8 mL/kg; Skin, rabbit: LD50 = 10 mL/kg.

Carcinogenicity:

Triethoxyvinylsilane -

Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

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:

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

14. TRANSPORT INFORMATION:

Hazard Class:	3
UN Number:	UN1993
Packing Group:	III

15. REGULATORY INFORMATION:

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

R 10 Flammable.

Safety Phrases:

S 9 Keep container in a well-ventilated place.

S 16 Keep away from sources of ignition - No smoking.

S 33 Take precautionary measures against static discharges.

WGK (Water Danger/Protection)

CAS# 78-08-0: No information available.

Canada

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CAS# 78-08-0 is listed on Canada's DSL List.

CAS# 78-08-0 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 78-08-0 is listed on the TSCA inventory.

16. ADDITIONAL INFORMATION:

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

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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