



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

3-Mercaptopropyltrimethoxysilane

CAS NO.: 4420-74-0

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
4420-74-0	3-Mercaptopropyltrimethoxysilane	98%	224-588-5	-	-

3. HAZARDS IDENTIFICATION:

Appearance: clear, colorless liquid. Flash Point: 88 deg C.

Warning! Harmful in contact with skin and if swallowed. Causes eye, skin, and respiratory tract irritation.

Stench. May cause allergic skin reaction. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **Combustible liquid and vapor.**

Target Organs: Respiratory system, eyes, skin.

Potential Health Effects

Eye: Causes eye irritation. Contact with liquid causes immediate burning pain, tearing, and reddening of the conjunctiva.

Skin: Causes skin irritation. Harmful if absorbed through the skin. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract. Ingestion may cause headache, nausea, and vomiting.

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

Chronic: Repeated or prolonged exposure may cause allergic reactions in sensitive individuals.

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.

山东万达有机硅新材料有限公司(上海办事处)	Shandong Wanda Organosilicon New Material Co., Ltd. (Shanghai Office)
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Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. 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.

Notes to Physician: Treat symptomatically and supportively.

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. Will burn if involved in a fire. Containers may explode in the heat of a fire. Combustible liquid and vapor.

Extinguishing Media: Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.

Flash Point: 88 deg C (190.40 deg F)

Autoignition Temperature: 235 deg C (455.00 deg F)

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 2; Instability: 1

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. Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment.

7. HANDLING AND STORAGE:

Handling: Use with adequate ventilation. Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Keep away from heat, sparks and flame. Do not ingest or inhale.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Store protected from moisture.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

OSHA Vacated PELs: (3-Mercaptopropyl)trimethoxysilane: No OSHA Vacated PELs are listed for this chemical.

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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.

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

Appearance: clear, colorless

Odor: stench

pH: Not available.

Vapor Pressure: < 5 mm Hg @ 20 deg C

Vapor Density: 6.77

Evaporation Rate:Not available.

Viscosity: 2 mPa @ 20 deg C

Boiling Point: 215 deg C @ 760 mm Hg

Freezing/Melting Point:Not available.

Decomposition Temperature:Not available.

Solubility: Insoluble.

Specific Gravity/Density:1.050

Molecular Formula:C₆H₁₆O₃SSi

Molecular Weight:196.34

10. STABILITY AND REACTIVITY:

Chemical Stability: Moisture sensitive.

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

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

Hazardous Decomposition Products: Carbon monoxide, oxides of sulfur, carbon dioxide, silicon dioxide.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION:

RTECS#:

CAS# 4420-74-0: TZ7800000

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LD50/LC50:

CAS# 4420-74-0:

Oral, rat: LD50 = 730 uL/kg;

Skin, rabbit: LD50 = 2140 uL/kg;.

Carcinogenicity:

CAS# 4420-74-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found

Teratogenicity: No information found

Reproductive Effects: No information found

Mutagenicity: No information found

Neurotoxicity: No information found

Other Studies:

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:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

14. TRANSPORT INFORMATION:

	US DOT	Canada TDG
Shipping Name:	AVIATION REGULATED LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQ
Hazard Class:	9	9
UN Number:	UN3334	UN3082
Packing Group:		III

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15. REGULATORY INFORMATION:

NOT LISTED

16. ADDITIONAL INFORMATION:

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

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