

**MATERIAL SAFETY DATA SHEET**

Date Updated: 29.06.2007  
Version: 3.0  
Regulation EC No. 1907/2006

**ORGANOSILANE MTO****\*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*\***MSDS Name: **Organosilane MTO (MOS)**

Chemical Name: METHYLTRIS(METHYLETHYLKETOXIME)SILANE, 95%

Company Identification: Dalian Onichem Co., Ltd.

218-220, No. 2 Gaoxin Street, Qixianling, Dalian 116023, P.R. China

Tel: 86-411-84794022, Fax: 86-411-84794077

For emergencies, call CHEMTREC 1-800-424-9300 or 1-202-483-7616

**\*\*\*\* SECTION 2—COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\***

Chemical Name	CAS NO.	%	TLV	OSHA PEL
METHYLTRIS(METHYLETHYLKETOXIME)SILANE	22984-54-9	>95		not established
METHYLETHYLKETOXIME	96-29-7	<2	10ppm	not established

**\*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\*****3.1 Hazards Classifications**

Hazard symbols: NONE

R36/37/38: Irritating to eyes, respiratory system and skin

**3.2 Emergency Overview And Potential Hazards****EMERGENCY OVERVIEW**

Moisture sensitive

**HMIS RATING**

Health: 2 Flammability: 2 Reactivity: 1

**POTENTIAL HEALTH EFFECTS**

Not available.

**\*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\***

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

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

Ingestion: Wash mouth out with water. Get medical aid.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**\*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\***

Recommended extinguishing media: Use water spray, carbon dioxide, or dry chemical powder, or appropriate foam.

**\*\*\*\* SECTION 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. sand, silica gel, sawdust), then place into a suitable waste container.

**\*\*\*\* SECTION 7 - HANDLING AND STORAGE \*\*\*\***

Handling: Avoid prolonged or repeated contact with eyes, skin, and clothing. Do not breathe vapor.

Storage: Store in a tightly closed container. Store in a dry area. Keep away from heat, sparks, and open flame.

**\*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\***

Engineering Controls: Safety shower and eye bath. Use nonsparking tools. Mechanical exhaust required.

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**Personal Protective Equipment (PPE)**

Hand: Wear rubber gloves.

Eye: Safety glasses.

Respirators: None required.

**\*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\***

Appearance: Colorless to yellowish transparent liquid

Odor: Mild odor

PH: Appr. 7

BP/BP Range: 110-111°C @2 mmHg

Freezing/Melting Point: -22°C

Flash Point: 90°C (194 °F)

Flammability: N/A

Explosion Limits: N/A

Vapor Pressure: N/A

Vapor Density, (air = 1): > 1

Evaporation rate (Butyl Acetate = 1): N/A

Viscosity: <0.001 Pas @ 20°C

Solubility: Reacts with water

Specific Gravity/Density: 0.982

Molecular Formula: C<sub>13</sub>H<sub>27</sub>N<sub>3</sub>O<sub>3</sub>Si

Molecular Weight: 301.46

**\*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\***

Chemical Stability: Stable in sealed containers under normal temperatures and pressures.

Conditions to Avoid: Combustible; avoid contact with heat, sparks or open flame.

Materials to Avoid: Reacts with water and moisture in air and acids liberating methylethylketoxime (MEKO). Contact with iron or steel should be avoided. Contact with electrophiles such as ferric chloride can lead to a violent reaction.

Hazardous Decomposition Products: Organic vapors including methylethylketoxime, methylethylketone, silicon dioxide, CO, CO<sub>2</sub> and NO<sub>x</sub>.

Hazardous Polymerization: Will not occur.

**\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\***

Oral Toxicity: N/A.

Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\***

Ecotoxicity: N/A.

**\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*****SUBSTANCE DISPOSAL**

Not listed as a material banned from land disposal according to RCRA.

**\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\***

Not regulated for transport

**\*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\***

Labelling according to EC Directives

Statutory basis/list: According to Directive 67/548/EEC

Hazard Symbols: NONE

Risk Phrases: R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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S28	After contact with skin, wash immediately with plenty of soap-suds.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

**\*\*\*\* SECTION 16 - OTHER INFORMATION \*\*\*\***

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 we 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 we have been advised of the possibility of such damages.