

**MATERIAL SAFETY DATA SHEET**Date Updated: 30.12.2003  
Version: 2.1**ORGANOSILANE MEO****\*\*\*\* SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION \*\*\***

MSDS Name: Organosilane MEO

Chemical Name: Methyltriethoxysilane, 99%

Formula: C7H18O3Si

HMIS CODES HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 1

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 \*\*\*\***

IDENTITY	CAS NO.	%	TLV	OSHA PEL
METHYLTRIETHOXYSILANE	2031-67-6	>99		not established
ETHANOL	64-17-5	<1	1000ppm	

**\*\*\*\* SECTION 3 -PHYSICAL DATA\*\*\*\***

Boiling Point: 141-3°C

Melting Point: &lt;0°C

Specific Gravity: 0.895

Vapor Pressure @25°C: 6mm

Vapor Density, air = 1: &gt; 1

Solubility in water: insoluble, reacts slowly

% volatiles: 100

Evaporation rate (Butyl Acetate = 1): &lt;1

Molecular Weight: 178.30

Other: N/A

Appearance &amp; Color: Clear liquid, characteristic pleasant odor.

**\*\*\*\* SECTION 4 -FIRE & EXPLOSION DATA\*\*\*\***

Flash Point, TCC: 30°C (86°F)

Autoignition Temp.: 225°C

Flammability Limits- LEL: N/A

UEL: N/A

Extinguishing Media: Water spray or fog, foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.

Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

**\*\*\*\* SECTION 5 -ENVIRONMENTAL INFORMATION \*\*\*\***

Spill response: Sweep material and transfer to a suitable container for disposal.

Recommended Disposal: Incinerate. Follow all chemical pollution control regulations.

**\*\*\*\* SECTION 6 -HEALTH HAZARD DATA \*\*\*\***

Eye Contact: May cause immediate or delayed severe eye irritation.

Skin contact: May produce irritation or contact dermatitis. Material generates ethanol on contact with water or moisture in skin, eyes and mucous membranes and has an irritating, dehydrating effect on overexposed tissue. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation may irritate the respiratory tract. Overexposure can cause lung damage - pulmonary toxin.

Note: The hydrolysis of this product produces ethanol. Overexposure to ethanol by skin absorption, inhalation or ingestion may have a narcotic effect (headache, nausea, drowsiness). Ethanol is metabolized to acetaldehyde and acetic acid which in large quantities result in metabolic acidosis, CNS depression and death due to respiratory arrest.

Oral Toxicity - rat, LD50: 12,500mg/kg

Inhalation Toxicity - rat, LCLo: 4000ppm/8 Hours

Irritation Data- skin-rbt 500mg/24H: Mild Irritant

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**\*\*\*\* SECTION 7–SUGGESTED FIRST AID\*\*\*\***

**EYES:** In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

**SKIN:** Flush with water, then wash with soap and water.

**INHALATION:** Move exposed individual to fresh air. Administer oxygen if needed. Call a physician.

**INGESTION:** never give fluids or induce vomiting if patient is unconscious or having convulsions. to conscious individual give one full cup of water to dilute ingested material. Get medical attention.

**\*\*\*\* SECTION 8–REACTIVITY DATA\*\*\*\***

Stability: Stable

Conditions to avoid: Material decomposes slowly in contact with moist air or with water liberating ethanol; TLV(TWA) = 1000ppm. Avoid contact with oxidizing agents. Hazardous decomposition products: Ethanol, organic acid vapors and silicon dioxide.

**\*\*\*\* SECTION 9–SPECIAL PROTECTION INFORMATION\*\*\*\***

Ventilation: Local exhaust is recommended. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, NIOSH approved organic vapor respirator.

Eye and Face Protection: Chemical worker goggles. Do not wear contact lenses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

**\*\*\*\* SECTION 10–OTHER PRECAUTIONS \*\*\*\***

For research and industrial use only.

Storage and Handling: Store in sealed containers.

Containers require grounding during use.

**\*\*\*\* SECTION 11–TRANSPORTATION\*\*\*\***

DOT SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. (METHYLTRIEHOXYSILANE)

DOT HAZARD CLASS: 3

DOT LABEL: FLAMMABLE LIQUID

DOT ID No: UN1993 PG III ERG: 27

**\*\*\*\* SECTION 12 - ADDITIONAL 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.