

MATERIAL SAFETY DATA SHEETDate Updated: 24.07.2008
Version: 3.0**ORGANOSILANE M301******** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION *****

MSDS Name: Organosilane M301

Chemical Name: 3-Methacryloxypropyltrimethoxysilane, 98%

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 ******

CAS#	Chemical Name, %	EINECS#
2530-85-0	3- Methacryloxypropyltrimethoxysilane, 98%	219-785-8

****** SECTION 3 - HAZARDS IDENTIFICATION ********EMERGENCY OVERVIEW**

Moisture sensitive.

Target Organs: None.

Potential Health Effects

Eye: Contact with eyes may cause severe irritation, and possible eye burns.

Skin: May cause severe irritation and possible burns.

Ingestion: N/A.

Inhalation: May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Causes chemical burns to the respiratory tract.

Chronic: N/A.

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

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.

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

Ingestion: Do NOT induce vomiting. Allow the victim to rinse his mouth and then to drink 2-4 cupfuls of water, and seek medical advice.

Inhalation: Remove from exposure to fresh air immediately.

Notes to Physician: Treat symptomatically and supportively.

****** SECTION 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.

Extinguishing Media: Do NOT use water directly on fire. Use foam, dry chemical, or carbon dioxide.

NFPA Rating: Not published.

Explosion Limits, Lower: N/A.

Upper: N/A.

****** 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., dry sand or earth), then place into a chemical waste container.

****** SECTION 7 - HANDLING and STORAGE ******

Handling: Provide good ventilation or extraction.

Storage: Keep containers tightly closed in a cool, dry, well-ventilated place. Protect from moisture.

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

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators:

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

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

Physical State: Liquid

Appearance: Transparent colorless to pale yellowish liquid

Odor: Ester

Molecular Weight: 248.10

Boiling Point: 255 at 1013 hPa

Freezing Point: -48

Flash Point: 107,7 Method: Tag closed cup ASTM D 56

Flammability Limits in Air: Lower: Not determined.

Upper: Not determined.

Specific Gravity (H₂O=1): 1,045 at 25/25

Vapour Pressure: <1,3 hPa at 20

Vapour Density (air=1): >1

Evaporation Rate (Butyl acetate=1): <1

Solubility In Water: Reacts slowly

Percent Volatiles: Not determined

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

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: N/A.

Incompatibilities with Other Materials: Strong oxidizing agents - moist air or water.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.

Hazardous Polymerization: Has not been reported.

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

Acute oral toxicity: LD₅₀ – rat > 5,000 mg/kg

Acute Inhalation toxicity: Larynx granuloma in animal tests

Skin irritation: Slightly irritating

Eye irritation: Slightly irritating

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

(*) Literature data

PERSISTENCE AND DEGRADABILITY

Value	Remark	Source
Degradability :		
BOD 28 : 74%	OECD 301A	(*)

AQUATIC TOXICITY/ EFFECTS ON WASTEWATERTREATMENT SYSTEM

Test	Value	Method	Remark	Source
Fish – Brachydanio rerio				
Lc ₅₀	1042 mg/l–96h	OECD 203		(*)

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Daphnia				
EC 50	>876 mg/1-24h	OECD 202	(max solubility)	(*)
Other species – Algae				
EbC50	>536 mg/1-72h	OECD 201		(*)
NOEC	322 mg/1			

****** SECTION 13 - DISPOSAL CONSIDERATIONS ******

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

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

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

Not listed by IMDG, ADR, ICAO

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

Labelling according to EC Directives

Statutory basis/list: Not subject to labeling provisions by Directive 67/548/EEC

****** SECTION 16 - 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.