

SAFETY DATA SHEET

Date Updated: 01.06.2013
Version: EU 4.6
Regulation REACH (EC 1907/2006) & CLP (EC 1272/2008)

ONICHEM
Onichem Specialities
www.onichem.com

Organosilane M301

**** SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING ****

SDS Name: **Organosilane M301**

Chemical Name: 3-Methacryloxypropyltrimethoxysilane, 98%

Synonym(s): 3-trimethoxysilylpropyl methacrylate

IUPAC Name: 3-trimethoxysilylpropyl-2-methylprop-2-enoate

Company Identification: Dalian Onichem Co., Ltd.

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 - HAZARDS IDENTIFICATION ****

EU-GHS Classifications

Classifications below according to Regulation (EU) No 1272/2008 on classification, labelling and packaging of Substances and Mixtures (CLP).

Not a hazardous material according to the Directive (EEC) No. 1272/2008

GHS-Labeling:

Statutory basis: Labelling not required according to EU-CLP Ordinance (1272/2008).

Classification as per Directive 67/548/EC or Directive 1999/45/EC.

On the basis of our data the product is not a hazardous substance as defined by the Chemicals Act or Hazardous Substance Ordinance in the currently valid versions.

Other Hazards: Not a PBT/vPvB substance as per the criteria of the REACH Ordinance

**** SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS ****

Ingredient (Chemical Name)	CAS#	EC#	Symbol(s)	R-phrase(s)	Hazard statements
3-trimethoxysilylpropyl methacrylate, 98% min.	2530-85-0	219-785-8	N/A	N/A	N/A

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

General information: Take persons to a safe place. Observe self-protection for first aid. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes. In case of persistent discomfort: Consult an ophthalmologist.

Skin: Flush skin with plenty of soap and water while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.

Ingestion: Never give fluids if patient is unconscious or having convulsions. Induce vomiting if person is conscious, have the mouth rinsed with water, drink plenty of water in small sips, and seek medical advice.

Inhalation: If aerosol or mists are formed: If necessary: Provide with fresh air.

Indication of any immediate medical attention and special treatment needed:

Product may hydrolyse upon contact with body fluids in the gastrointestinal tract to produce additional methanol; therefore, consider the signs/symptoms of methanol poisoning and also observe the known latency period of several days

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

General Information: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan.

Suitable extinguishing Media: Use alcohol-resistant foam, dry chemical, or carbon dioxide.

Further information: Do not direct a solid stream of water or foam into hot, burning pools: this may cause frothing and increase fire intensity. Cool closed containers exposed to fire with water spray.

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Flash Point: 108°C (226°F)

Auto-ignition temperature: 275°C (527°F)

Explosion Limits, Lower: 0.9%(V)

Upper: 5.4%(V)

HMIS Classification

NFPA Rating

Health 2

Health 2

Flammability 1

Fire 1

Physical hazard 1

Reactivity 1

Advice for firefighters: Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulation

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8. Keep out unprotected persons, ensure adequate ventilation.

Spills/Leaks: Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container, to be disposed of in compliance with existing regulations.

Environmental precautions: Do not flush into surface water or sanitary sewer system

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

Handling: Provide good ventilation or extraction. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor, aerosol and mist. Wash hand after handling. Normal measures for preventive fire protection.

Storage: Keep containers tightly closed in a cool, dry, well-ventilated place. Keep away from heat and sources of ignition. Protect from moisture

**** 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 (PPE)

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

Skin: Protective equipment is not normally necessary.

Hand protection: Gloves are not normally required.

Respirators: Suitable respiratory protection should be worn if the product is used in large quantities, confined spaces or in other circumstances where the OEL maybe approached or exceeded.

Depending on the working conditions, wear a respiratory mask with filter AX or use a self-contained respirator. The choice of a filter type depends on the amount and type of chemical being handled in the workplace. Regarding filter characteristics, contact your respiratory protection supplier.

Hygiene measures: Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Protective measures: Handle in accordance with good industrial hygiene and safety practices. It should be defined in the work place in the form of a risk analysis according to directive 89/686/EEC and amendments.

If workplace exposure limits are exceeded and/or larger amounts are released(leakage, spilling, dust) the indicated respiratory protection should be used.

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

Do not breathe in vapors or aerosols. Avoid contact with skin and eyes

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

Appearance: Colorless to pale yellowish liquid.

Odor: Ester-like

pH: N/A.

Vapor Pressure: <1.33hPa @ 20°C

Vapor Density (air=1): >1

Evaporation Rate (Butyl acetate=1): <1

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Viscosity: 2.8 mPa.s @ 20°C
BP/BP Range: 255°C
Freezing/Melting Point: -48°C
Decomposition Temperature: N/A.
Solubility In Water: Reacts slowly.
Specific Gravity (H2O=1): 1.045 g/cm³ @ 25°C
Molecular Formula: C₁₀H₂₀O₅Si
Molecular Weight: 248.10

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

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Avoid exposure to heat and temperature.
Incompatibilities with Other Materials: Strong oxidizing agents - moist air or water, peroxide.
Hazardous Decomposition Products: Carbon oxides of silicon – under the fire condition.
Hazardous Polymerization: Has not been reported

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

Acute oral toxicity: LD₅₀ – rat > 2,000 mg/kg
Acute Inhalation toxicity: Larynx granuloma in animal tests.
Acute dermal toxicity: LC₅₀ - rat: >2,000 mg/kg
Skin irritation: Rabbit, Slightly irritating.
Eye irritation: Rabbit, Slightly irritating.
Sensitization: Guinea pig, no sensitizing effects

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

Ecotoxicity effects:
Toxicity to fish: NOEC, Brachydanio rerio, >100 mg/l, 96h
Toxicity to other organisms: NOEC, Daphnia magna, >100 mg/l, 48h
Toxicity to algae: NOEC, Green algae, >100 mg/l, 72h

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

Dispose of in a manner consistent with federal, state, and local regulations.
Do not reuse empty containers and dispose of in accordance with the regulation issued by the appropriate local authorities. If there is product residue in the emptied container, follow directions for handling on the container's label.
Incorrect disposal or reuse of this container is illegal and can be dangerous.
No waste key number as per the European Waste Typed List can be assigned to this product, since such classification is based on (as yet undetermined) use to which the product is put by the consumer
The waste key number must be determined as per the European Waste Types List(EU Waste Types List 2000/532/EC) in cooperation with the disposal firm, producing firm or authority

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

This product is not regulated as dangerous goods by DOT, IMDG, ADR/RID, IATA/ICAO

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

European/International Regulations

No exposure or risk assessment is required for this product since it is not classified for health or environmental risks.

Other international regulations:

Listed on or in accordance with the following inventories
AICS – Listed/registered
EINECS - Listed/registered
ENCS - Listed/registered
IECSC - Listed/registered

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KECL - Listed/registered
DSL – Not Listed/Not registered
NDSL –Listed/registered
PICCS - Listed/registered
TSCA - Listed/registered

**** 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