

# 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 M311

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

SDS Name: **Organosilane M311**

Chemical Name: 3-methacryloxypropylmethyldimethoxysilane, 97%

Synonym(s): 3-(dimethoxymethylsilyl)propyl methacrylate

IUPAC Name: 3-Methacryloxypropylmethyldimethoxysilane

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).

Acute Toxicity-Oral	Category 4	H302
Skin irritation	Category 2	H315
Eye irritation	Category 2	H319
Acute Toxicity-Inhalation	Category 4	H332
Toxicity-Organ	Category 3	H335

#### GHS-Labeling:

Globally Harmonized System of Classification and Labelling (GHS)

Symbol(s):



Hazard Pictogram: GHS07

Signal Word: Warning

Hazard Statement:	H302 H315 H319 H332 H335	Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation.
Precautionary Statement:	P264 P280  P302+P352 P304+P340  P305+P351+P338  P332+P313  P337+P313	Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.  IF ON SKIN: Wash with soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  If skin irritation occurs: Get medical advice/attention.  If eye irritation persists: Get medical advice/attention.

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

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

Ingredient (Chemical Name)	CAS#	EC#	Symbol(s)	R-phrase(s)	Hazard statements
3-methacryloxypropylmethyl dimethoxysilane, 97% min.	14513-34-9	238-518-6	Xi  Xi	R20 R22 R36 R37 R38	H332 H302 H319 H335 H315

## \*\*\*\* 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:** If patient is conscious, have the mouth rinsed with water, drink plenty of water in small sips, and seek medical advice.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a physician.

**Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically and supportively.

## \*\*\*\* 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.

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

**Flash Point:** 115°C (239°F)

**Auto-ignition Temperature:** N/A.

**Explosion Limits, Lower:** N/A.

Upper: N/A.

**NFPA Rating:** N/A.

**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. Avoid eye contact. Avoid skin contact. Wash hands immediately after contamination. Do not breathe vapor. Keep container closed. Do not take internally. 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

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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 (PPE)**

**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.

**Hygiene measures:** When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. Remove contaminated or saturated clothing. Wash contaminated clothing before re-use.

**Protective measures:** Handle in accordance with good industrial hygiene and safety practices. 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:** Acrid.

**pH:** N/A.

**Vapor Pressure:** N/A.

**Vapor Density (air=1):** N/A.

**Evaporation Rate (Butyl acetate=1):** N/A.

**Viscosity:** N/A.

**BP/BP Range:** 65°C (0.35 mmHg)

**Freezing/Melting Point:** N/A.

**Decomposition Temperature:** N/A.

**Solubility In Water:** Insoluble in water.

**Specific Gravity (H<sub>2</sub>O=1):** 1.000 g/cm<sup>3</sup> @ 25°C

**Molecular Formula:** C<sub>10</sub>H<sub>20</sub>O<sub>4</sub>Si

**Molecular Weight:** 232.4

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

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Protect from moisture.

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

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

Methanol in case of hydrolysis

**Hazardous Polymerization:** Has not been reported.

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

**Acute oral toxicity:** LD<sub>50</sub> – rat: N/A.

**Skin irritation:** Irritant for skin and mucous membranes.

**Eye irritation:** irritant effect.

**Sensitization:** No sensitizing effect known.

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

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

There is no information available

## \*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

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

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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

European Labeling in Accordance with EC Directives

Statutory basis/list: According to Directive 67/548/EEC or 1999/45/EC

Hazard Symbols: Xi Irritant.

Risk Phrases: R20/22 Harmful by inhalation and if swallowed.

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

Safety Phrases: S23 Do not breathe gas/fumes/vapor/spray.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

##### Other international regulations:

Listed on or in accordance with the following inventories

AICS – Listed/registered

EINECS - Listed/registered

ENCS - Listed/registered

IECSC - Listed/registered

KECL – Not listed/Not registered

DSL - Not listed/Not registered

NDSL - Not listed/Not 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