

# 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 A311

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

SDS Name: **Organosilane A311**

Chemical Name: 3-(dimethoxymethylsilyl)propylamine, 95%

Synonym(s): 3-Aminopropylmethyldimethoxysilane

IUPAC Name: 3-(Dimethoxymethylsilyl)propylamine

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).

Skin Irritation Category 2 H315  
Serious eye damage Category 1 H318

#### GHS-Labeling:

Globally Harmonized System of Classification and Labelling (GHS)

Symbol(s):



Hazard Pictogram: GHS05

Signal Word: Danger

Hazard Statement: H315 Causes skin irritation.  
H318 Causes serious eye damage.

Precautionary Statement: P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P310 Immediately call a POISON CENTER or doctor/physician.

Other Hazards A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required/has not been carried out.

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

Ingredient (Chemical Name)	CAS#	EC#	Symbol(s)	R-phrase(s)	Hazard statements
3-Aminopropylmethyldimethoxy silane, 95% min.	3663-44-3	222-919-8	Xi Xi	R38 R41	H315 H318

### \*\*\*\* 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.

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**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes with eye held open. Continue rinsing process with eye rinsing solution. Protect unaffected eye. Immediate further treatment in ophthalmic hospital. Continue rinsing eye until arrival at hospital.

**Skin:** Immediately flush skin with plenty of water. Wash contaminated clothing before reuse. Consult a doctor in case of persistent skin irritation.

**Inhalation:** Remove from exposure to fresh air immediately. In case of persistent discomfort, consult a physician immediately.

**Ingestion:** If conscious, allow the victim to rinse his mouth and then to drink plenty of water in small sips, Consult a physician immediately.

**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; if required, therapy of irritative effect. Early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear. If necessary, aspirate leftover substance.

Detection of substance(Methanol) possible in blood.

Antidote treatment: Ethanol

\*\*\*\* 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:** 77 °C (171°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, 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. Wash hands after handling. Avoid inhalation of vapors and spray mists.

**Storage:** Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. 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:** Wear appropriate protective gloves and clothing to prevent skin exposure.

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**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 slightly yellowish liquid.

Odour: Amine-like.

pH: N/A

Vapor pressure: N/A.

Vapor Density: N/A.

Evaporation Rate: N/A.

Viscosity: N/A.

BP/BP range: N/A.

Freezing/Melting Point: N/A.

Decomposition Temperature: N/A.

Solubility: N/A.

Specific Gravity/Density: 0.930 g/cm<sup>3</sup> @ 20 °C

Molecular Formula: C<sub>6</sub>H<sub>17</sub>NO<sub>2</sub>Si

Molecular Weight: 163.29

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

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

**Conditions to avoid:** Moisture, heat, open flames, and other sources of ignition.

**Materials to avoid:** Reacts violently with water and acids to form heat and methanol.

**Hazardous decomposition products:** Methanol in case of hydrolysis.

**Hazardous polymerization:** Will not occur.

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

Acute oral toxicity: LD<sub>50</sub> rat: >2,000mg/kg

Acute dermal toxicity: LD<sub>50</sub> rabbit: >2,000mg/kg

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.

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

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## \*\*\*\* 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:	R38	Irritating to skin.
	R41	Risk of serious damage to eyes.
Safety Phrases:	S2	Keep out of the reach of children.
	S25	Avoid contact with eyes.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S37/39	Wear suitable protective clothing and eye/face protection.
	S46	If swallowed, seek medical advice immediately and show this container or label.

### Other international regulations:

Listed on or in accordance with the following inventories

AICS – Listed/registered

EINECS - Listed/registered

ENCS – Not Listed/Not registered

IECSC - Listed/registered

KECL – Not Listed/Not registered

DSL - Not Listed/Not registered

NDSL –Not Listed/Not registered

PICCS - Not Listed/Not registered

TSCA - Not Listed/Not registered

## \*\*\*\* 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