

**MATERIAL SAFETY DATA SHEET**Date Updated: 30.12.2003  
Version: 2.1**ORGANOSILANE A302****\*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\***

MSDS Name: Organosilane A302

Chemical Name: 3-Aminopropyltriethoxysilane, 98%  
3-Triethoxysilylpropylamine, 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, %
919-30-2	3-Aminopropyltriethoxysilane, 98% min
64-15-7	Ethanol, 0.5% max

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

Moisture sensitive.

Target Organs: None.

Potential Health Effects

Eye: Contact with eyes may cause severe irritation.

Skin: May cause severe irritation.

Ingestion: N/A

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

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.

Auto-ignition Temperature: 300 deg C ( 572.00 deg F)

Flash Point: 96 deg C ( 204.80 deg F)

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.

To be disposed of in compliance with existing regulations

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

Provide good ventilation or extraction.

Normal measures of preventive fire protection.

Keep containers tightly closed in a cool, dry, well-ventilated place.

**\*\*\*\* 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 \*\*\*\***

Appearance: clear liquid

Odor: None reported.

pH: N/A.

Vapor Pressure: &lt;1 mPa @ 20 C

Vapor Density: N/A.

Evaporation Rate: N/A.

Viscosity: N/A.

Boiling Point: 217 deg C @ 760.00mm Hg

Freezing/Melting Point: &lt;-70 deg C

Decomposition Temperature: &gt; 217 deg C

Solubility: reacts with water

Specific Gravity/Density: 0.9420g/cm<sup>3</sup>Molecular Formula: C<sub>9</sub>H<sub>23</sub>NO<sub>3</sub>Si

Molecular Weight: 221.37

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

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: moisture, water, alkalis, acids, alcohols

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 \*\*\*\***

RTECS#: CAS# 919-30-2: TX2100000

LD50/LC50: CAS# 919-30-2: Oral, rat: LD50 = 1780 mg/kg; Skin, rabbit: LD50 = 4gm/kg.

Carcinogenicity: 3-Aminopropyltriethoxysilane, 98%

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

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

Ecotoxicity: N/A.

**\*\*\*\* 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 \*\*\*\***

N/A.

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### \*\*\*\*SECTION 15 - REGULATORY INFORMATION \*\*\*\*

N/A.

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

N/A: not available