

SAFETY DATA SHEET

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

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Organosilane AE302

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

SDS Name: **Organosilane AE302**

Chemical Name: N-(2-Aminoethyl)-3-aminopropyltriethoxysilane, 95%

Synonym(s): N-[3-(triethoxysilyl)propyl]ethylenediamine

IUPAC Name: N'-(3-triethoxysilylpropyl)ethane-1,2-diamine

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).

Serious eye damage Category 1 H317
Skin sensitization Category 1 H318

GHS-Labeling:

Globally Harmonized System of Classification and Labelling (GHS)

Symbol(s):



Hazard Pictogram: GHS05

Signal Word: Danger

Hazard Statement: H317 May cause an allergic skin reaction.
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
N-(2-Aminoethyl)-3-aminopropyltriethoxysilane, 95% min.	5089-72-5	225-806-1	Xi	R41 R43	H318 H317
Related silanes,3%max	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.

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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: Flush skin with plenty of soap and water, consult a doctor in the event of persistent skin irritation.

Ingestion: Do NOT induce vomiting. If conscious, allow the victim to rinse his mouth and then to drink plenty of water in small sips, and seek medical advice immediately.

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

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 water spray, foam, carbon dioxide, dry chemical.

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: 123 °C (253°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. Avoid skin and eye contact. Do not ingest.

Storage: Keep containers tightly closed in a cool and well-ventilated place.

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.

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.

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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 light yellowish liquid

Odor: mild amine (ammonia-like) odor.

pH: N/A.

Vapor Pressure: <1 mm Hg @ 25°C

Vapor Density: N/A.

Evaporation Rate: N/A.

Viscosity: N/A.

BP/BP Range: 135°C @ 5 mm Hg

Freezing/Melting Point: < 0°C

Solubility: Reacts with water

Specific Gravity/Density: 0.970 g/cm³ @ 25°C

Molecular Formula: C₁₁H₂₈N₂O₃Si

Molecular Weight: 264.44

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

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Combustible; avoid contact with heat, sparks or open flame.

Materials to Avoid: Reacts with water and moisture in air liberating methanol. Avoid contact with peroxides, oxidizing agents, alcohols, acids.

Hazardous Decomposition Products: Organic acid vapors, methanol.

Hazardous Polymerization: Has not been reported

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

Acute oral toxicity: LD₅₀ Rat: N/A.

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

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

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

Keep away from foodstuff and animal feed

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**** 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:	R41	Risk of serious damage to the eyes.
	R43	May cause sensitization by skin contact.
Safety Phrases:	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28	After contact with skin, wash immediately with plenty of soap-suds.
	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 - Listed/registered

PICCS - Listed/registered

TSCA - Listed/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