

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

3-Aminopropylmethyldiethoxysilane [Organosilane A312]

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

SDS Name: **3-Aminopropylmethyldiethoxysilane (Organosilane A312)**

Chemical Name: 3-Aminopropylmethyldiethoxysilane, 95%

Synonym(s): 3-(diethoxymethylsilyl)propylamine

IUPAC Name: 3-[diethoxy(methyl)silyl]propan-1-amine

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 corrosion/irritation Category 1B H314

GHS-Labeling:

Globally Harmonized System of Classification and Labelling (GHS)

Symbol(s):



Hazard Pictogram: GHS05

Signal Word: Danger

Hazard Statement:	H314	Cause severe skin burns and eye damage.
Precautionary Statement:	P260	Do not breathe dust/fume/gas/mist/vapors/spray.
	P280	Wear protective gloves/protective clothing/eye protection.
	P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P303+P361+P353	IF ON SKIN(or hair):Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER or doctor/physician.

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 statement
3-(diethoxymethylsilyl)propylamine, 95%min.	3179-76-8	221-660-8	C	R34	H314
Ethanol, 0.5% max.	64-17-5	200-578-6	F Xi	R11 R36	H225 H319

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**** 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: 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 for at least 15 minutes. Consult a physician.

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. Keep patient half sitting with upper body raised if breathing difficulties occur. Consult a physician immediately.

Indication of any immediate medical attention and special treatment needed:

Therapy as for chemical burn. If substance has been swallowed, early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear. If necessary, suck away leftover substance

**** 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 foam, dry chemical, water spray 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: 85°C (185°F)

Auto-ignition temperature: N/A.

Explosion Limits, Lower: N/A.

Upper: N/A.

HMIS Classification

NFPA Rating

Health 3

Health 3

Flammability 2

Fire 2

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, sanitary sewer system

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

Handling: Provide good ventilation or extraction. Normal measures of preventive fire protection.

Storage: Keep containers tightly closed in a cool, dry, 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.

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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 hands before break and end of work. Remove immediately all contaminated clothing. Wash contaminated clothing before re-use.

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: Clear liquid.

Odor: Light odor of amine.

pH: 11 (20g/l) @ 20°C

Vapor Pressure: 3 hPa @ 55°C

Vapor Density: N/A

Evaporation Rate: N/A.

Viscosity: 2 mPas. @ 20°C

BP/BP Range: 220°C

Freezing/Melting Point: N/A.

Decomposition Temperature: N/A.

Solubility: Not miscible, decomposition by hydrolysis.

Specific Gravity/Density: 0.920 g/cm³ @ 20°C

Molecular Formula: C₈H₂₁NO₂Si

Molecular Weight: 191.34

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

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Keep away from heat and sources of ignition.

Incompatibilities with Other Materials: Acids, water.

Hazardous Decomposition Products: Ethanol in case of hydrolysis.

Hazardous Polymerization: Has not been reported

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

Acute oral toxicity: LD₅₀, Rat: >2000mg/kg

Acute dermal toxicity: LD₅₀, Rabbit: 2520mg/kg

Skin irritation: Rabbit, corrosive.

Eye irritation: Severe eye damage must be expected.

Chronic Toxicity: There are no known chronic effects related to this compound.

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

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

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

**** 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.

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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 ****

Shipping Name: CORROSIVE LIQUID,ORGANIC, N.O.S.

Technical name: 3-Aminopropylmethyldiethoxysilane

DOT	Class	UN	PG		PI
	8	3267	II		
IATA/ICAO	Class	UN/ID	PG		PI
	8	3267	II		
IMDG	Class	UN	PG	EmS	PI
	8	3267	II	F-A,S-B	
RID/ADR	Class	UN	PG		PI
	8	3267	II		

**** 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: C Corrosion.
R34 Causes burns.

Safety Phrase(s): S26/28 In case of contact with eyes or skin, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing and gloves and eye/face protection.

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 - Listed/registered

DSL - 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