

SAFETY DATA SHEET

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

ONICHEM
Onichem Specialities
www.onichem.com

Organosilane G312

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

SDS Name: **Organosilane G312**

Chemical Name: gamma- Glycidoxypropylmethyldiethoxysilane, 97% min

Synonym(s): [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane,

IUPAC Name: diethoxy-methyl-[3-(oxiran-2-ylmethoxy)propyl]silane

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 Sensation Category 1 H317

GHS-Labeling:

Globally Harmonized System of Classification and Labelling (GHS)

Symbol(s):



Hazard Pictogram: GHS07

Signal Word: Warning

Hazard Statement:	H317	May cause an allergic skin reaction.
Precautionary Statement:	P262 P280 P302+P352 P333+P313	Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with soap and water. If skin irritation occurs: Get medical advice/attention

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-phrases(s)	Hazard statement
gamma-Glycidoxypropylmethyldiethoxysilane, 97% min.	2897-60-1	220-780-8	Xi	R43	H317

**** 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.

Ingestion: Do not induce vomiting. Have the mouth rinsed with water if patient is conscious, then drink plenty of water. Consult a physician.

Skin: Flush skin with plenty of soap and water while removing contaminated clothing and shoes, consult a physician.

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Inhalation: Remove to fresh air. Consult a physician.

Eyes: Flush eyes thoroughly with water for 15 minutes also under the eyelid. Obtain medical attention if discomfort persists.

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.

Flash Point: 128°C (262°F)

Auto-ignition temperature: N/A.

Explosion Limits, Lower: N/A.

Upper: N/A.

HMIS Classification

NFPA Rating

Health 2

Health 2

Flammability 1

Fire 1

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 or sanitary sewer system

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

Handling: Provide good ventilation or extraction. Do not swallow. Avoid contact with skin, eyes and clothing. Avoid breathing vapor, aerosol and mist. Wash hands before breaks and immediately after handling the product.

Storage: Keep containers tightly closed. Keep away from heat and sources of ignition

**** 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

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**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Appearance: Colorless and transparent liquid
Odor: Ester-like.
pH: N/A.
Vapor Pressure: <1.33 hPa @ 20°C
Vapor Density: >1
Evaporation Rate: <1
Viscosity: 3cSt
BP/BP Range: 290°C
Freezing/Melting Point: <0°C
Decomposition Temperature: N/A.
Solubility: Reacts slowly.
Specific Gravity/Density: 0.978 g/cm³ @ 25°C
Molecular Formula: C₁₁H₂₄O₄Si
Molecular Weight: 248.39

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

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Moisture.
Materials to Avoid: Strong oxidizing agents, aqueous acids. Reacts with water or moisture to form: Ethanol.
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Silicon oxide under high temperature condition.
Hazardous Polymerization: Has not been reported

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

Acute oral toxicity: LD50 Rat: >2000 mg/kg
Acute dermal toxicity: LD50 Rabbit: >2000 mg/kg
Skin Contact: Slightly irritating.
Sensitization: Guinea pig, positive.
Eye Contact: No eye irritation

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

The product degrades through hydrolysis into alcohols and silanol or siloxanol compounds

**** 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 foodstuffs 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 Symbol(s):	Xi	Irritant.
Risk Phrases:	R43	May cause sensitization by skin contact.
Safety Phrases:	S24	Avoid contact with skin.
	S37	Wear suitable gloves

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
PICCS - Not listed/Not 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