

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 G302

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

SDS Name: **Organosilane G302**
Chemical Name: 3-Glycidoxypropyltriethoxysilane, 95% min
Synonym(s): [3-(2,3-epoxypropoxy)propyl]triethoxysilane
IUPAC Name: triethoxy-[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).

Not a hazardous material according to the Directive(EEC)No. 1272/2008.

GHS-Labeling:

Statutory basis: Labelling not required according to EU-CLP Ordinance(1272/2008)

Classification as per Directive 67/548/EC or Directive 1999/45/EC.

On the basis of our data the product is not a hazardous substance as defined by the Chemicals Act or Hazardous Substance Ordinance in the currently valid versions.

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-phrased	Hazard Statement
3-Glycidoxypropyltriethoxysilane, 95%min.	2602-34-8	220-011-6	N/A	N/A	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.

Ingestion: Have the mouth rinsed with water if patient is conscious. After absorbing large amount of substance: in case of discomfort, supply with medical care.

Skin: Wash skin with soap and plenty of water.

Inhalation: Remove to fresh air.

Eyes: Flush eyes thoroughly with water for several minutes and keeping eyelid open. Obtain medical attention if discomfort persists.

Indication of any immediate medical attention and special treatment needed:

After absorbing large amount of substance, administration of activated charcoal. Acceleration of gastrointestinal passage

**** 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.

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Flash Point: 125°C (257°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. Avoid contact with skin and eyes.

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.

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

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

Appearance: Colorless and transparent liquid

Odor: Mild

pH: 3.5-4.0 (1000 g/l) @ 20°C

Vapor Pressure: 1.05 hPa @ 20°C

Vapor Density: N/A.

Evaporation Rate: N/A

Viscosity: 3.35 mPa.s @ 20°C

BP/BP Range: 270°C

Freezing/Melting Point: 0°C

Decomposition Temperature: >276°C

Solubility: Not miscible, decomposition by hydrolysis.

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Specific Gravity/Density: 1.000 g/cm³ @ 25°C

Molecular Formula: C₁₂H₂₆O₅Si

Molecular Weight: 278.42

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

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Amines, peroxides, alkalis, acids.

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Ethanol in case of hydrolysis.

Hazardous Polymerization: Has not been reported

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

Acute oral toxicity: LD₅₀ Rat: 8, 030 mg/kg

Acute inhalation toxicity: Inhalation of vapors in high concentration may cause irritation of respiratory system.

Acute dermal toxicity: N/A.

Skin Contact: Not irritating.

Sensitization: Guinea pig, not sensitizing.

Eye Contact: Slightly irritating.

Carcinogenicity: N/A

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

Biodegradability: 37% Not readily biodegradable.

Toxicity to fish: LC₅₀ Cyprinus carpio: 55 mg/l/96 h

Toxicity to daphnia: EC₅₀ Daphnia magna: 473 mg/l/48 h

Toxicity to algae: EC₅₀ scenedesmus subspicatus: 255 mg/l/72 h

**** 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

**** SECTION 15 - REGULATORY INFORMATION ****

European/International Regulations

No exposure or risk assessment is required for this product since it is not classified for health or environmental risks.

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 - Listed/registered

DSL – Not listed/Not registered

NDSL - Listed/registered

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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