

SAFETY DATA SHEET

Date Updated: 01.10.2013
Version: EU 5.0
Regulation REACH (EC 1907/2006) & CLP (EC 1272/2008)

ONICHEM
Onichem Specialities
www.onichem.com

Organosilane U301

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

SDS Name: **Organosilane U301**
Chemical Name: 3-Ureidopropyltrimethoxysilane, 98%
Synonym(s): 3- (Trimethoxysilylpropyl)urea
IUPAC Name: 3-trimethoxysilylpropylurea

REACH Pre-registration number: 17-2119456263-XX-0000

Use of substance/preparation: Industrial adhesion promoter

Company Identification: Dalian Onichem Co., Ltd.
No. 2 Gaoxin Street, Qixianling, Dalian 116023, P.R. China
Tel: 86-411-84794022, Fax: 86-411-84794077

Information contact: MSDS@onichem.com
For emergencies, call CHEMTREC 1-800-424-9300 or 1-202-483-7616

**** SECTION 2 - HAZARDS IDENTIFICATION ****

EU-GHS Classifications

The product has not been classified as hazardous according to the legislation in force.

GHS-Labeling:

The product does not need to be labeled in accordance with EC directives or respective national laws.

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-pharse(s)	Hazard statements
3-Ureidopropyltrimethoxysilane, 98% min.	23843-64-3	245-904-8	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 Material Safety Data Sheet when going for medical treatment.

Eyes: Immediately flush eyes with plenty of water for at least 10 minutes. In case of persistent discomfort: Consult an ophthalmologist.

Skin: Wash skin with soap and water immediately. Wash contaminated clothing before reuse. Consult a doctor in the event of persistent skin irritation.

Inhalation: Remove to fresh air at once. If respiratory problems, artificial respiration. Consult a physician in case of sickness.

Ingestion: Do not induce vomiting. If conscious, drink plenty of water in small sips. Call a physician immediately.

Indication of any immediate medical attention and special treatment needed:

Product may hydrolyse upon contact with body fluids in the gastrointestinal tract to produce additional methanol; therefore, consider the signs/symptoms of methanol poisoning and also observe the known latency period of several days

**** 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.

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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.

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: 99°C (210°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 2

Reactivity 2

Advice for fire 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 formation of aerosols. Avoid contact with skin and eyes. Keep out of children. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging.

Storage: Keep containers tightly closed in a cool, dry, well-ventilated place.
Protect from moisture

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Control parameters

PNEC: It is not necessary to list.

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: Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

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

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

Appearance: Colorless to light brown liquid.

Odor: Amine like

pH: N/A.

Vapor Pressure: <1.33 hPa @ 20°C

Vapor Density: >1

Evaporation Rate: <1

Viscosity: N/A.

BP/BP Range: 210°C

Freezing/Melting Point: <-5°C

Decomposition Temperature: N/A

Solubility: Reacts with water.

Specific Gravity/Density: 1.150 @ 25 °C

Molecular Formula: C₇H₁₈N₂O₄Si

Molecular Weight: 222.32

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

Chemical Stability: Stable in sealed containers under normal temperatures and pressures.

Conditions to Avoid: Moisture.

Materials to avoid: Water, basic substances and acids. Reaction causes the formation of methanol.

Hazardous decomposition products: Methanol in case of hydrolysis. Carbon oxides, Oxides of silicon under fire or very high heat condition.

Hazardous Polymerization: Will not occur

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

Acute oral toxicity: LD50: Rat, 5,000 mg/kg

Acute dermal toxicity: LD50: Rabbit, 2,000 mg/kg

Skin irritation: Rabbit: not irritating.

Eye irritation: Rabbit: strongly irritating.

Sensitization: Buehler Test guinea pig: no sensitizing effects

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

Ecotoxicity effects: No negative effects on the aquatic environment are known

**** 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.

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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
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