

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

Organosilane NOEO

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

SDS Name: **Organosilane NOEO**
Chemical Name: N-octyltriethoxysilane, 97%
Synonym(s): Triethoxyoctylsilane
IUPAC Name: triethoxy(octyl)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 Irritation Category 2 H315

GHS-Labeling:

Globally Harmonized System of Classification and Labelling (GHS)
Symbol(s):



Hazard Pictogram: GHS07

Signal Word: Warning

Hazard Statement: H315 Causes skin irritation.

Precautionary Statement: P264 Wash thoroughly after handling.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention
P362 Take off contaminated clothing and wash before reuse.

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-octyltriethoxysilane, 97% min.	2943-75-1	220-941-2	Xi	R38	H315

**** 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: Keeping eyelid open, immediately flush eyes with plenty of water for at least 5 minutes, in case of persistent discomfort, consult an ophthalmologist.

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

Ingestion: If conscious, allow the victim to rinse his mouth and then to drink plenty of water in small sips. Consult a physician.

Inhalation: Remove to fresh air. If symptoms persist, consult a physician.

Indication of any immediate medical attention and special treatment needed:

If required, therapy of irritative effect. After absorbing large amounts of substance, administration of activated charcoal. Acceleration of gastrointestinal passage

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**** 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, water spray, 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: Vapors may form explosive mixtures with air. Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica, Carbon oxides and traces of incompletely burned carbon compounds, Formaldehyde.

Flash Point: 109°C (228°F)

Auto-ignition temperature: N/A.

Explosion Limits, Lower: 0.5%(V) (200°C). Upper: >13.5%(V) (200°C).

HMIS Classification

Health	2
Flammability	1
Physical hazard	1

NFPA Rating

Health	2
Fire	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. Do not breathe spray or mist. Do not breathe vapor. Avoid skin and eye contact. Do not empty into drains.

Storage: Keep containers tightly closed in a cool, dry, well-ventilated place. Protect from moisture. Do not store with oxidizing agents. Vapors may form explosive mixtures with air.

**** 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-face piece 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 and 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

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

Appearance: Colorless to pale yellow liquid.
Odor: Alcoholic.
pH: N/A.
Vapor Pressure: < 1 Pa @ 20°C
Vapor Density: >1
Evaporation Rate: <1
Viscosity: 1 cSt @ 25°C
BP/BP Range: 98°C
Freezing/Melting Point: -75°C
Decomposition Temperature: N/A.
Solubility: Reacts slowly.
Specific Gravity/Density: 0.879 g/cm³ @ 20°C
Molecular Formula: C₁₄H₃₂O₃Si
Molecular Weight: 276.48

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

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: In the presence of oxygen and heat, the ethanol forming during the reaction may produce acetaldehyde. Material may form acetaldehyde when heated with inorganic pigments in the presence of air.
Incompatibilities With Other Materials: moist air or water.
Hazardous Decomposition Products: Ethanol in case of hydrolysis, Carbon oxides, Oxides of silicon.
Hazardous Polymerization: Has not been reported

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

Acute oral toxicity: LD₅₀ – rat > 5,110 mg/kg
Skin irritation – Rabbit, irritating.
Eye Irritation – Rabbit, not irritating.
Toxicity In Vitro: No evidence of mutagenic effects.

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

Elimination information (persistence and degradability)
Biodegradability Exposure time: 28 d Result: 12% Not readily biodegradable.
Results of PBT assessment: A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required/has not been carried out

**** 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

European Labeling in Accordance with EC Directives
Statutory basis/list: According to Directive 67/548/EEC or 1999/45/EC

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Hazard Symbols:	Xi	Irritant.
Risk Phrases:	R38	Irritating to skin.
Safety Phrases:	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 - 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