

# 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 VME

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

SDS Name: **Organosilane VME**

Chemical Name: Vinyltris(2-methoxyethoxy)silane, 98%

Synonym(s): tris(2-methoxyethoxy)vinylsilane

IUPAC Name: ethenyl-tris(2-methoxyethoxy)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).

Reproductive toxicity Category 2 H361f

#### GHS-Labeling:

Globally Harmonized System of Classification and Labelling (GHS)

Symbol(s):



Hazard Pictogram: GHS08

Signal Word: Warning.

Hazard Statement: H361 Suspected of damaging fertility.

Precautionary Statement: P202 Do not handle until all safety precautions have been read and understood .  
P281 Use personal protective equipment as required.  
P308+P313 IF exposed or concerned: Get medical advice/attention .  
P405 Store locked up .  
P501 Dispose of contents/container to an approved incineration plant.

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-pharse(s)	Hazard Statement
Vinyltris(2-methoxyethoxy)silane 98% min	1067-53-4	213-934-0	Xn	R62	H361f
2-Methoxyethanol, 1% max.	109-86-4	231-791-2	F T T T	R10 R20 R21 R22 R60/61	H226 H332 H312 H302 H360

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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:** Rinse thoroughly with plenty of water for at least 5 minutes, keep eyelid open. In case of persistent discomfort, consult an ophthalmologist.

**Skin:** Flush skin with plenty of soap and water.

**Ingestion:** Have the mouth rinsed with water if patient is conscious. After absorbing large amounts of substance, supply with medical care.

**Inhalation:** Remove from exposure to fresh air immediately. Administer oxygen if needed. Call a physician.

### **Indication of any immediate medical attention and special treatment needed:**

After absorbing large amounts 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.

**Extinguishing Media:** Water spray or fog, foam, carbon dioxide, dry chemical.

**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:** 92°C(198°F)

**Auto-ignition temperature:** 210°C(410°F)

**Explosion Limits,** Lower: N/A.

Upper: N/A.

**HMIS Classification**

**NFPA Rating**

Health

2

Health

1

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, 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.

**Skin:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Hand:** Selection of protective gloves to meet the requirements of specific workplaces. Suitability for

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specific workplace should be clarified with protective glove manufacturers.

**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. Cleanse and apply cream to skin after work.

**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: Colorless or light yellowish liquid.

Odor: Ester

pH: N/A.

Vapor Pressure: 22 hPa @ 20°C

Vapor Density: >1

Evaporation Rate: <1

Viscosity: 2.8 mPa.s @ 20°C

BP/BP Range: 285°C

Freezing/Melting Point: -130°C

Decomposition Temperature: N/A.

Solubility: not miscible, decomposition by hydrolysis.

Specific Gravity/Density: ca. 1.035 g/cm<sup>3</sup> @ 25°C

Molecular Formula: C<sub>11</sub>H<sub>24</sub>O<sub>6</sub>Si

Molecular Weight: 280.39

### \*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Peroxides, Catalytic metals, Polymerization catalysts.

**Incompatibilities with Other Materials:** Strong oxidizing agents, peroxide or water.

**Hazardous Decomposition Products:** Decomposition products from hydrolysis in water  
2-methoxyethanol.

**Hazardous Polymerization:** Has not been reported

### \*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

Acute oral toxicity: LD<sub>50</sub> Rat: >2,000 mg/kg

Acute inhalation toxicity: LC<sub>50</sub> Rat: N/A.

Acute dermal toxicity: LD<sub>50</sub> Rat: >2,000 mg/kg

Skin irritation: Rabbit, no skin irritation.

Eye irritation: Rabbit, no eye irritation.

Sensitization: Guinea Pig, no sensitizing effects

### \*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

Biodegradability: 89% Readily biodegradable.

Toxicity to fish: LC<sub>0</sub> Brachydanio rerio ≥100 mg/l 96 h

Toxicity to daphnia: EC<sub>50</sub> Daphnia magna: 314 mg/l 48 h

Toxicity to algae: EC<sub>50</sub> Scenedesmus subspicatus: 304 mg/l 72h

Toxicity to bacteria EC<sub>10</sub> Pseudomonas putida: >2,070 mg/l 5h

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## \*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS N \*\*\*\*

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

Hazard Symbols: Xn Harmful.

Risk Phrases: R62 Possible risk of impaired fertility.

Safety Phrases: S23.2 Do not breathe gas/vapor.

S36/37 Wear suitable protective clothing, and gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately(show the label where possible).

S53 Avoid exposure – obtain special instruction before use.

### 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 - 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